REPORT OF COLLATERAL INVESTIGATION:
MAJOR AIRCRAFT ACCIDENT
CH-53 S/N 68-10933
15 May 1975

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FORMAL REPORT OF INVESTIGATION

I. AUTHORITY

1. This collateral investigation was conducted on 28 by through 5 June 1975, at Nakhon Phanom RTAFB. APO San Fancisco 96310, by Major John F. Guilmartin, Jr., United States Air Force, duly appointed under the provisions of AFR 110-14 (Tab A).

II. MATTERS INVESTIGATED

2. This was an investigation into the facts and circumstances surrounding a major aircraft accident of 13 May 1975, involving a CN-53C helicopter, Serial Number 68-10933, assigned to the 56th Special Operations Wing located at Nakhon Phanom Royal Thai Air Force Base, Thailand (Tabs C and L).

III. FACTS

- 3. Said CH-53C direcraft, Serial Number 68-10933 (hereafter alternately referred to as Knife 01-3), crashed some 36 miles West of Nakhon Phanom RTAFB, at coordinates 17° 20' 05" North Latitude, 104° 02' 00" East Longitude, at approximately 2115 hours local, on 13 May 1975, while on an operational staging flight (Tab L).
- A. The ission was an operational staging flight to U-Tapao Royal Thai Navy Base, transporting assorted maintenance and support equipment (Tab Cl.) one maintenance technician and 18 security policemen.
 - a. The crew of Knife 01-3 consisted of:
 - (1) Pilot, iLt James G. Kays,
 - (2) Co-Filot, 1Lt Laurence E. Froehlich,
 - (Mechanic, SSgt George E. McMullen,
 - (4) Flight Mechanic, AlC Robert P. Weldon,

All cremembers were assigned to the 21st Special Operations Squadron.

- b. One maintenance technician was carried:
- 5:t, Raber was assigned to the 56th Consolidated Aircraft Main-
- c. The remaining passengers were eighteen (18) Security
 - (a) See Tab C2.
- d. Cargo carried by Knife Ol-3 included a tow bar, a hydraulic serving cart and miscellaneous maintenance gear.

(7) See Tabs C1 and M4.

- 5. The Aircraft Commander of Knife 01-3, First Licuten nt Kays, was awarded the aeronautical rating of Pilot effective 7 April 1972. 1Lt Kays completed his initial qualification training in the CH-53 on 14 April 1975. A current Medical Clearance was on file (Tab II). As of 12 May 1975, 1Lt Kays possessed 1508, 5 flying hours. He had 186.3 hours in the CH-53. He had 5.5 hours of actual weather time. He had flown 84.4 hours in the pervious 90 days and 38.7 hours in the previous 30 days. (Tab D1)
- 6. The Co-Pilot of Knife Ol-3. First Lieutenant Froehlich, was awarded the aeronautical rating of Pilot effective 15 January 1974. ILt Froehlich completed his initial qualification on 31 May 1974 (Tah D2). A current Medical Clearance was on file (Tab H). As of 12 May 1975 ILt Froehlich possessed 563.1 flying hours. He had 363.1 H-53 time. He had flown 31.9 hours in the previous 90 days and 6.8 hours in the previous 30 days.
- 7. The senior Flight Mechanic aboard Knife 01-3, SSgt McMullen, completed his initial qualification on the CH-53 on 23 October 1973. He was certified as an Instructor Flight Mechanic on 20 August 1974 (Tab D3). A current Medical Clearance was on record (Tab H). SSgt McMullen possessed 1315.9 total flying hours as of 12 May. He had 486.2 hours of M-53 Time. He had flown 63.4 hours during the previous 90 days and 36.9 hours during the previous 30 days.
- 8. The second Flight Mechanic aboard Knife 01-3, AIC Weldon, completed his initial qualification on the CH-53 on 10 December 1974 (Tab D4). A current Medical Clearance was on record (Tab H). AIC Weldon possessed 178.9 total flying hours as of 12 May. He had 178.9 hours of H-53 time. He had flown 77.1 hours in the previous 90 days and 41.1 hours in the previous 30 days.
- 9. The crew of Knife 01-3 was listed on 56 SOW Form 0-132, according to local directives (Tab E). The 19 passengers were properly recorded as part of their mobility processing according to 56 SOW directives, the exignices of the service precluding normal manifesting (Tab C2). All personnel aboard Knife 01-3 were accounted for by remains found at the crash site.
- as personnel from the 21st Special Operations Squadron, 56th Consolidated Aircraft Maintenance Squadron and 56th Security Police Squadron were alerted for deployment to U-Tapao RTNR. Crew artifies were completed in the prescribed manner, a current Weather briefing was given to the crew (Tab G) and a proper clearance was filed and granted (Tab E).
- or cludes any definitive conclusion, all evidence, including relevent work cards and other maintenance records, suggests that the forms and maintenance records of CH-53C 68-10933 were properly maintained and in order at the time of the fatal flight (Tah I). A proper pre-flight inspection was accomplished before the aircraft was released to the flight crew (Tah C3).

- 12. Pre-flight by the flight crew, loading, engine star and taxi were accomplished without incident. There is no evedence of the flight crew having encountered any delay or malfunction prior to the crash sequence; normal communications were maintained with the usual controlling agencies until an estimated maximum interval of five to seven minutes prior to impact.
- or Z times are indicated in the transcript. These are 14 hours carlier then the local times shown here.) Turn out of traffic was accomplished normally and a climb to the assigned altitude of 9000' initiated. Following normal frequency changes, Knife 01-3 checked in with INVERT radar, reporting level at 9000' at 2110L. Positive radar contact was extablished and radar monitoring initiated (Tahs F and C5). At this point radar showed Knife 01-3 at 270°/39nm. Further attempts by the INVERT controller to contact Knife 01-3 beginning at 2116L were fruitless (Tabs F and C5). At 2125L, Knife 01-2, having assisted INVERT in attempting to raise knife 01-3, announced seeing a fire on the ground at his nine O'Clock. SAR activities were immediately initiated by INVERT. Investigation by Knife 01-2 and Knife 02-1 confirmed that this was, in fact, the crash site and that there was no sign of surviors (Tabs C4 and C5).
- 14. Compilation of available evidence suggests that Knife Ol-3 suffered structural failure resulting in the separation of a main rotor blade heginning at or before 2116L. Separation of this blade was the result of a radial fatigue crack in the blade sleeve (Tabs J and M7, M8 and M9). This crack is held by expert testimony to have been in existance prior to the fatal flight (Tab J). This crack was so located that it would not have been visible without completely disassembling the sleeve and spindle assembly, an operation which is not performed by maintenance below denot level (Tab L3). Although there is no evidence to completely exclude the possibility that the ultimate failure of the sleeve and spindle assembly might have been accelerated by acrodynamic and structural loading resulting from some other, undiscovered problem, and although the potential for such problems is present in the CH-53 (Tabs C6 and C11), there can be no doubt that the fatigue crack did cause blade separation and that it would eventually have caused blade separation in the course of normal operation. There is, further, no doubt that the such a main rotor blade separation would cause progressive structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to have occured to Knife structural disintegration as is known to h
- 15. Following last voice contact with INVERT, Knife 01-3 appears to have performed a right hand turn of approximately 270° and to have traversed at least three miles (without allowing for inaccuracies in the radar plot) prior to impacting the ground at about 2115L. The time of impact is fixed with some precision by the report of the co-pilot of Knife 01-2 (Tab C4) who, based on his logged off time and estimated elapsed time who, based on his logged off time and estimated elapsed time from takeoff, observed the explosion on impact. That Knife from takeoff, observed the confirmed by the reports of Thai 01-3 exploded on impact is confirmed by the reports of Thai eyewitness who were, however, unable to fix the time with any greater precision.

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16. Eyewitness testimony plus the fact that Knife 01-3 impacted the ground some three miles closer to Nakhon Phanom than the last confirmed radar plot suggests that the aircraft may have continued to fly for a period following the initiation of the structural disintegration sequence. If, in fact, the aircraft remained in any way controlable, this was only to a very limited degree and for a brief period of time. Pilotinitiated recovery was not possible.

17. Following separation of the first blade, the resultant severe dynamic imbalance caused the progressive separation of additional blades, ultimately tearing the main transmission from the airframe (Tabs L2 and M6). Eyewitness testimony and wreckage distribution suggests that this disintegration sequence occurred repidly and probably at an altitude of at least two to three thousand feet (Tabs C7, C8 and L2).

on the spot by the crew of Knife 02-1 and on the following day by a full ground party (Tab C9). The fact that the crash occured at night, rapid notification by the INVERT controller and the rapid and efficient response of proper USAF authorities in dispatching a ground recovery team resulted in the successful recovery of a very high percentage of aircraft components which were not consumed in the fire of the main fuselage. The recovered components included the greater part of all main rotor blades and whe bulk of the tail rotor. Pilferage by local villagers was not a significant factor: monetary rewards totalling \$263.54 were paid for recovery of various components and a solatium of \$22.02 was paid to the owner of the land on which impact occured (Tab K). Further claims against the Air Force are not anticipated (Tab K).

IV. SUMMARY OF EVENTS AND DISCUSSION

19. During the course of the investigation eleven (11) witnesses were interviewed. That eyewitness were interviewed by Mr. OPAS DUANGSOMOSORA and Mr. CHAICHANA PROMJOM, Community Activities Specialists, 56 CSG/CA, under the supervision of Capt DANIEL W. JACOBOWITZ, Chief, Military Civic Actions Branch. They, in turn, were sworn as witnesses. All witnesses were duly sworn prior to testifying (Tab B). In addition, certain laboratory reports, photographs and compilations of physical evidence were made available to the board (Tabs J, L and M). The evidence and testimony reveal that:

Review of the activities of the flight crew of Knife 01-3 on the day of the accident, 13 May 1975, and during the day preceding the accident produced no evidence of any violation of standard operating procedures or Air Force directives. All evidence and testimony indicates that flight operations were performed in accordance with the aircraft flight manual and appropriate directives (Tabs C9 and C10)

b. Investigation produced no evidence that pre-flight and servicing activities by maintenance personnel, selection of passengers and loading of the aircraft were other than in accordance with appropriate directives. The flight crew was properly assigned. The passengers were proceeding under proper military, authorization and proper authority.

c. Pre-flight aircrew briefings were found to have been thorough and were properly conducted.

- d. Investigation produced no evidence that control of Knife 01-3 by controlling agencies was conducted other than in accordance with proper directives. Flight following and monitoring by INVERT radar was professionally conducted. Prompt realization by the INVERT controller that Knife 01-3 had disappeared from his scope permitted a prompt SAR reaction, leading to the expeditious recovery of the bulk of the wreckage.
- c. Knife 01-3 took off at 2057L and turned Westbound on course as cleared, climbing to 9000' and reporting 9000' at 2110L. This was the last radio contact with Knife 01-3. Last radar contact was at 270°/39nm from Nakhon Phanom RTAFR. Between 2110L and about 2115L, when the copilot of Knife 01-2 observed what proved to be the impact explosion of Knife 01-3, a main rotor blade separated from Knife 01-3. Blade separation was caused by material failure; post accident investigation revealed a fatigue crack in the blade sleeve assembly. This crack was found to have been in existance prior to the initiation of the crash sequence and could not have been discovered by normal maintenance procedures.

The initial blade separation caused extreme dynamic loads on the aircraft which led to the progressive separation of the other blades, causing partial disintegration of the aircraft in flight including the separation of the main transmission from its mounts. As the disintegration sequence progressed, the aircraft was rendered uncontrollable. There is no evidence of any kind to suggest that pilot inputs had any causal effect in the disintegration sequence. Conversely, the fact that blade/fuselage impact did not occur suggests the possibility of stabilizing pilot inputs during the initial phases of the disintegration sequence. The crash was not surviveable. All 23 personnel on board were killed. The bodies of all 23 were accounted for in the wreckage.

- f. As indicated by attached photographs, physical examination of the wreckage was facilitated by prompt location of the crash site. Key components of the aircraft were recovered leading to identification of the failed blade cuff assembly.
- g. The fatigue crack in the blade cuff assembly is found to have caused blade separation and would ultimately have caused blade separation in the course of normal operation.
 - h. No evidence of hostile activity was found.
- i. Supervision, crew qualification, air disipline, weather, hostile activity and maintenance performance and practices are found not to have contributed to this accident.

JOHN F. OUTLMARTIN, JR., Major, USAF Investigating Officer

DEPARTMENT OF THE AIR FORCE HEADQUARTERS THIRTEENTH AIR FORCE (PACAF) APO SAN FRANCISCO 95274

REPLY TO ATTN OF: CC

19 MAY 1975

suarecri Appointment of Investigating Officer Pursuant to AFR 110-14

Major John F. Gilmartin

40th ARRS APO 96310

- 1. You are hereby appointed collateral investigating officer to investigate the facts and circumstances surrounding a major aircraft accident involving the crash of a United States Air Force CH-53C helicopter, SN68-10933, assigned to the 56th Special Operations Wing located at NKP RTAFB, Thailand. This accident occurred on 13 May 1975, approximately 40 nautical miles from Nakhon Phanom, Thailand. This accident resulted in twenty-three fatalities including four crew members, one crew chief, and eighteen security policemen.
- 2. Your investigation will include examination into all relevant aspects of the matter including but not limited to supervisory defects, diminution of discipline, failure to follow directives and possible claims against the U: S. government. You are authorized to interview personnel, take statements or testimony, or examine records, and review directives you consider appropriate subject to the guidelines set forth by AFR 110-14, AFR 127-4 and other applicable regulations. The Staff Judge Advocate, 56 Combat Support Group, NKP RTAFB, Thailand, should be consulted for a briefing prior to beginning the investigation. Additionally, he is available for consultation and advice on any matters that may arise.
- 3. Your report will be in writing, prepared in accordance with the instructions in AFR 110-14 and applicable provisions of AFM 120-3. A verbatim record of the testimony of witnesses should not, however, be utilized; i.e., a signed affidavit by each witness will suffice. This report will be submitted to me not later than 5 June 1975. If this suspense cannot be met, your request for additional time should be submitted to the Staff Judge Advocate, this headquarters.

DEROY MANOR MAJOR General, USAF

commander

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ADVICE TO WITNESSES

I am Major GUIIMARTIN, appointed to conduct the collateral investigation of and to gather all the fafts and circumstances surrounding the accident involving the CH-53 aircraft which occurred on 13 May 1975 on or near MANEON PHAMOM RTAFE Thailand. This investigation is separate and apart from the safety investigation conducted under AFR 127-4. The purpose of the collateral investigation is to obtain and preserve all available evidence for use in claims, litigation, disciplinary action, adverse administrative proceeding, and for all other purposes except for safety and accident prevention. Testimony before the safety aircraft accident investigation board is given with the understanding that it cannot be used for other than accident prevention purposes and all witnesses are advised that it will be treated in confidence. Testimony presented to the collateral investigator, however, may be used for any purpose deemed appropriate by competent authority. At the conclusion of this investigation, I will prepare a summary of evidence in lieu of findings and make appropriate recommendations. Do you understand the difference between the safety aircraft accident investigation and collateral investigation?

SWEARING OF PEPORTERS AND STENOGRAPHERS

"You swear (or affirm) that you will faithfully perform the duties of reporter of this investigation, so help you God."

SWEARING OF WITNESSES

"You solemnly swear that the testimony you are about to give in the matter now under investigation shall be the truth, the whole truth, and nothing but the truth, so help you God."

(Should a witness state that, for reasons of religious belief, he is not permitted to take an outh, it is permitted that such a witness may make an affirmation. In such a case, the affirmation is administered in substantially the following language:)

"You solemnly affirm that the testimony you are about to give in the matter now under investigation shall be the truth, the whole truth, and nothing but the truth."

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AFFIDAVIT

TESTIMONY OF MAJOR RICHARD S. CAMPBELL,

As Wing Mobility Officer it was my responsibility to determine the load planning for all aircraft deploying to U-Tapao RTNB in support of the Mayaguez Operation. CH-53 aircraft, tail number 68-10933 had 1131 lbs of equipment and 19 passengers plus a crew of four for this deployment. This was not the heaviest loaded CH-53 deployed and at the time was aclow the Allowable Cabin Load (ACL) (6118 lbs) provided by the 21 SOS. There was no question of crew acceptance of this load since the 21 SOS had a pre-planned standard load of 1100 lbs of cargo and 20 passengers.

RICHARD S. CAMPBELL, Major, USAF 56 SOW Mobility Officer

Subscribed and sworn before me, this 29th day of May 1975,

JOHN F. JGUILMARTIN, JR., Major USAF Investigating Officer

AFFIDAVIT

Testimony of Captain Charles J. Heubusch,

on 13 May 1975 I was directed by competent authority to assemble a ground security force for deployment to U-Tapao RTAFB. A portion of the force was to deploy aboard HH-53 and CH-53 helicopters of the 40th ARRS and 21 SOS from Nakhon Phanom RTAFB for subsequent employment in the Mayaquez operation. Other elements were deployed from Udorn and Korat and in place at U-Tapao. All personnel deployed in this operation were volunteers. The following individuals were part of that ground security force and were enroute to U-Tapao aboard aircraft 933 when it crashed:

USAF.

Sgt Jimmy P. Black Sgt Bobby G. Collums SSgt Gerald A. Coyle AlC Thomas D. Dwyer Sgt Bob W. Ford Sgt Gerald W. Fritz TSgt Jackie Glenn Sgt Darrell L. Hamlin Sgt Gregory L. Hankamer Sgt David A. Higgs SSgt Faleagafulu Ilaoa Sgt Michael D. Lane AlC Dennis W. London AlC Robert P. Mathias Sgt William P. McKelvey AlC Edgar C. Moran II AlC Tommy R. Nealis Sgt Robert W. Ross

CHARLES J. HEUBUSCH, Captain, USAF

Chief, Security Police

Subscribed and sworn before me this 29th day of May 1975.

JOHN F. GUILMARTIN, Jr., Major, USAF Investigating Officer

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Testimony of MSgt Ronald R. Glover, USAF

I certify and affirm that the Pre-flight inspection accomplished on CH-35C 68-10033 prior to its fatal flight was performed in accordance with the existing pre-flight work cards. AlC Cullen performed the inspection and I was his supervisor. The reliability of AlC Cullen, his maintenance techniques and knowledge is outstanding. I observed portions of his pre-flight inspection and can confidently say it was a properly performed inspection.

RONALD R. GLOVER, MSGT, USAF

CH-53C Line Chief

Subscribed and sworn before me, this 2nd day of Jun 75.

JOHN F. GUILMARTIN, JR., Major, USAF Investigating Officer

ing officer

AFFIDAVIT

Testimony of 2nd Lt David W. Greer, . USAF

On the night of 13 May 75, I was the co-pilot on Knife 1-2 took off from NKP at 2120 and headed 270° on the start of trip to H-Tapao RTNAB. Approximately five (5) minutes after ake off I noticed a large explosion and firehall on the horizon. I pointed it out to the rest of the crew and we continued on course. Shortly thereafter Invert started a communcation search for Knife 1-3. After negative results, we requested a fix on their last position. We observed a fire on the ground at our 9 O'clock position and after relaying to Invert, we were instructed to hold. The time was 2135.

We held on scene until 2250 during which time we observed numerous cook-offs of various types of munitions. We maintained communications with Joker, Warlock and Knife 2-1 who eventually landed. When King arrived on scene we departed the site and continued on to U-Tapao.

Vand W grow SAVID W. GREER, 2nd Lt. USAF

Co-milet

Subscribed and sworn before me, this 30th day of May 1975.

JOHN F. GUILMARTIN, JR., Major, USAF

Investigating Officer

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AFFIDAVIT

Testimony of 2Lt David A. Ford, USAF.

As an INVERT Duty Controller, I was on duty the night of 13 May 75 and was assigned the task of providing flight following for Knife 01-3. It approximately 1413Z, I took handover of Knife 01-3 flight from NKP RAPCON at 270/26 miles. I postively identified him by position and Mode 3 squawk. He came up on our fequency, 292.3, whereupon I gave him Radar contact, Radar monitor. I radar monitored him for approximately 10 miles; when we lost radar and SIF contact; I marked the scope at 270/39 where we lost radar. After several sweeps with no return, I went out on the primary frequency (292.3) several times with no success trying to contact him. Knife 01-2 came up (270/24) and I immediately asked him to try to contact Knife 01-3, which he did with no success. I went out on Guard and also asked Knife 01, who was approximately (220/85), to attempt contact. He also was unsuccessful. Also, I had my tech contact Korat, Udorn and NKP RAPCON to see if any of them were talking to Knife 01-3. I advised Knife 01-2 when he was in the vicinity of Knife 01-3's last position. He spotted a ground fire and investigated. We initiated SAR activities.

2. The above statement is true to the best of my knowledge and belief.

DAVID A. FORD, 2nd Lt, USAF

Subscribed and sworn before me, this 30th day of May 1975.

JOHN F. GUILMARTIN, JR., Major, USAF

Investigating Officer

(5)

Testimony of 1Lt Michael B. Lackey, ., IISAF

On the night of 13 May 75, I was the aircraft commander of a CH-53, call Sign "Knife 02-1" assigned to lead a flight of CH-53's to U'Tapao AFB. Due to maintenance problems the flight was split up and our take-off time delayed. While still on the ground "Warlock" made a call for "any H-53 aircraft still on the ramp" to report to them. We called immediately, and they requested that we proceed west of NKP to investigate suspected aircraft crash site. We were airborn at 2153 and immediately calk! "Knife 01-2" who was orbitting the crash site.

Upon reaching the area at 2210L we immediately made a pass across the site putting out two flares, passed across again at 1500 MSL, and then made an approach into the site stopping above the trees abeam the downed aircraft (approx 20 yds away), at 2220L. That time I confirmed with the orbitting CH-53 that the still burning wreckage was an H-53. We hovered to a suitable landing area about 50 yds from the wreckage, landed, and disembarked one flt engineer, a flt surgeon, and a Medical technician.

They proceeded to the wreckage and looked for surviors. The orbitting aircraft warned that we had a large number of "lights" approaching from the N % NW and suggested we depart the ground party was picked up, and we took off.

Flight conditions that night were not good due to the lack of any moon and no visible horizon. For that reason we were required to use flares and our landing & search lights to make the approach into the sight. The only villages in the area were small and unlighted providing no good reference for the ground. Weather was clear with a high scattered deck at 13,000 which lelocked out any starlight.

Michael & Kacher L. IISAF

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Subscribed and sworn before me, this 3rd day of June 1975.

GOHN F. GUILMARTIN, JR., Major, USAF

Investigating Officer

(6)

Testimony of 1Lt Michael B. Lackey, Wish

On the night of 29 Apr 75 while orbitfing in the vicinity of the USS Midway in the S. China Sea in a CM-53C aircraft experienced the momentary loss of both generators and all electrical power to the aircraft. Due to haze, overcast, and the fact that we were some 50 NM from the coast the only reference for flight was the ship. After about 15 sec one generator was reset. Shortly there after it failed again, but it was again reset. An emergency landing was made on the carrier once radio, intercom, and other electrics were restored. Only one generator was reset, the other would not return on the line.

affightell the Market USAF

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Subscribed and sworn before me, this 3rd day of June 1975.

JOHN F. GUILMARKIN, JR., Major, USAF

Investigating Officer

C(1)

Translation and transcription of interview of witness # 2.

We'er here with eyes witness of the aircraft accident in the vacinity of Ban Dong Ma Fai the participates are Capt Daniel W. Jacobowitz, Thai interpreter in Mr. Chaichana Promjom and the subject is Mr. Somphao Kengkote. Sounds in the back groung are a tropical monsoonal rain strom. Interview was conducted Mr. Somphao's home. Other persons present included Mr. Somyod, an eye witness to the incident.

- J: Jacobowitz
- S: Somphao
- C: Chaichana
- J: What is your name sir?
- S: My name is Mr. Somphao.
- J: What were you doing at the fime that you saw the aircraft crash?
- S: I was bird hunting.
- J: Where were you at the time that you saw this happen?
- C: At Pak Huey Wai, the name of the river.
- J: Were you down on the river bed or up on the side of the bank up on the rice field?
- S: On the side of the river bank.
- J: That is he was up, not down by the water, but up the river side. OK.
- J: What was it the first called your attention or first made you look at the helicopter?
- S: The helicopter flew by and the light shine at me, I put out my light and stook and watched.
- C: When the chopper flew over by him, he looked up and the chopper spot light shine to him. And then he afraid of the helicopter. He blew out his light. He turned.
- J: Yr. Somphao was afraid that the helicopter was after him, so he blew out his hunting light.
- I: ifter he turned out the light helicopter turned the spot light toward him. OK.
- J: hat did he do after he turned out his hunting light?
- S: I stood still and watched and heard the explosion and saw flame in the air craft and it fell.
- C: After he turn down his hunting light he stand still and looking for the helicopter and after that a few minutes he heard a crash of noise and the chopper catch fire.
- J: During the time between when he turn down his light, and when he heard the noise of the crashed of helicopter, was he able to see helicopter at all?

(8)

This of MI

- S: Yes, I saw the helicopter.
- J: After he turned out the light, can he tell me the way whic the helicopter flew, until it crashed.
- S: The aircraft came from east.
- ! He was standing on the east bank of the river.
- S: I was standing on the band south of river.
- J: When the aircraft passed over you did you notice anything unusual except from the light, that they shined on you.
- S: I saw the light shine on me, and I did not see anything unusual. And after few minutes I heard the sound of a crash.
- J: The time when it caught fire was it already on the ground or not?
- S: I saw the aircraft caught on fire while it was still in the air.
- J: The helicopter was still in the air. Can he tell us what that fire looded like?
- S: Looked like a normal fire. (flame)
- C: Red fire, just like the normal fire.
- J: Did he describe it as in looking like, or identification light on the aircraft, the normal light which turns around, or did mean burning flame?
- S: Just normal like burning flame.
- J: When he saw the flame was it on the top, bottom, from or the back of helicopter?
- S: I saw the burning flame underneath the helicopter.

Note: Makes hand motion indicating flame spreading up sides of heliconter.

- S: After that the chopper lose control and then swerve to the right side.
- J: When helicopter passed over you on fire, could you see how far it went toward Dong Koi can you see how far it went toward that village or did it just fall straight down?
- S: After I saw the helicopter caught on fire it was still flying and crashed before Dong Koy village.
- J: How far toward Ban Dong Koy Did it fly before it fell?
- S: Didn't reach Don Koi,
- S: The helicopter flew with fire about over one kilometer.
- C: I about one Kilometer from Ban Don Koi?
- C: Far from that.
- C: No, No, far from Ban Don Koi.

J: Came within one klick of Ban Don Koi

19 (9)

But did not reach the village Never reached the village of Ban Don Koi. J: After he saw it pass over him with a light on did it just fall straight toward Don Koi, or come back east, north, south or west?

- After chopper on fire pass over him, the chopper lose control and heading to Ban Don Koi village and came down, came down,
- ca came down and then.
- Did it come down at first-gentle or very sudden, that is did .7 it came down at a nice smooth rate or fall like a rock.
- S: The chopper spun down.
- He indicates that it was making rocking side to side motion J: and a spinning motion. He indicates the chopper was spinning around every which way. Every possible of combination of turn over. That is revolving along its axis and cross its axis also.
- How far from where he was did airplane crash into the woods? J: Where it hit the ground?
- I was about one 1/km from where the airplane crashed.
- How far from Don Koi is the spot where he was standing?
- S: About three Kilometers (Note: actually 2.5)
- Did the helicopter ever go further west, than the point it crashed? Did it pass over and come back or did it go straight to the crash?
- After the chopper caught on fire, the chopper swerved to the right side to the north, and then fall in to the ground.
- Then the chopper went over him, did it stay on south side of the river with him, the same side of the river with him, until it turned to the crash site?
- His site is an another stream, separate from Nam Oon, from the C: big stream.
- He was on the small tributory. J:
- 5: Small one.
- He was south of the small tributary, OK. J:
- At the time the light shined on him what noise was the helicopter making?
- 5: Tu tu tu ta toot.
- C: Normal?
- No, not normal.
- C: It sounded like the engine sputter.

(10)

11 FW JWH

- J: Would you make that sound again? Imitate the sound it makes.
- S: Ta ta ta tope.
- J: How long did that noise continue?
- S: About one or two minutes.
- J: The noise like that continue a maximum of 1 or 2 minutes. During the time the helicopter was falling from the sky, or turning over, was that noise still continuing?
- S: Make noise Toom, and them stop.
- C: The sound is not continue, it sound. "Boom" and then disappear.
- J: After a loud noise, the sound ceased, stopped completely. OK.
- J: When the light shine on him, did it look like a regular spot light-shine on him? Did he readly think a spot-light-shine? Or was it some other kind of light. A didd he really feel that a spot light was deliberally shinning on him.
- S: Spot light.
- J: Was the light steady or did it flash on and off.
- S: Steady light.
- J: A steady light-shined on him.
- J: Did that spot light that was shinning on him turn off before he saw the flames or did it continue to shine on him for every and length of time?
- S: The spot light-off, before the flame started.
- J: Mr. Somphao, have you even see arcwelding being done?
- S: Yes, I have see arcwelding before.
- J: How would he say this light look compared to an arcwelding light? Does it look the same as that light or different from light he knews he has seen from arcwelding light.
- S: The light from the chopper is different from arcwelding light.
- J: What was the different between that light and an arcwelding light?
- S: The light from chopper shine like flashlight.
- J: Could Mr. Somphao tell, if the light was from right in the aircraft or from the same place where the sound of engine trouble was coming from?
- S: The light shine to me came from the head of the aricraft.
- C: Front of the aircraft.
- J: At anytime during the incident did you ever see or hear a second helicopter?
- 9: Yes, I saw the second airplane.

7 mw. 11

(11)

- He saw the second helicopter, just few minutes from the first C: one he saw.
- When did he see the second helicopter? J:
- After the first helicopter crashed.
- Did the second helicopter that flew over you shine the spot light on the ground toward the the first helicopter? 3:
- The second helicopter shined the spot light around the first S: one.
- Did the light the helicopter number 2 make, did the light #2 look the same as the light on helicopter number 1 make when J: it shined on him?
- Light is dirrerent, the second helicopter light brighter than the first helicopter light.
- The light from second helicopter was stronger than the light from the first helicopter.
- Is he absoulutely sure, that the light that he thinks is the first helicopter was not the light from second helicopter? J:
- The second helicopter light was brighter than first helicopter.
- He assure that the light from the first one and second one are the same, same light, but the second one is stronger. C:
- What I wanted to find out was he does think at all that this light was from the same helicopter. He is sure that this Light is form a second helicopter?
- This light came from different heliopter. The first light shine on me came from the first helicopter.
- Aside from the spot light which shine on you, did you ever see any regular red light, that helicopters and airplanes use?
- First you ask him if he has ever seen a regular light on a helicopter. Then ask him if he saw that kind of regular light on the helicopter that crashed.
- No, I did not see any light at all. 5:
- He did not see any red light, a regular light, just the light from spot light.
- It was dark out and he saw the helicopter turning every which way, how could be tell that the helicopter was turning every which was in the air?
- S: I saw by the light of the flames.
- He could tell the aircraft was turning over and over because it was lighted of its own flame.
- The description includes the fact that the airplane was on fire everywhere at this point. J:
- J: Mr. Somphao did you see the airplane hit the ground?

1661-6-1

S: No, I did not see.

G: No, He didn't see because of the trees.

It did not see becarus of trees in the way.

1. Could he see fire came up from where it hit?

S: Yes, I saw the fire flame.

- J: Recause of trees at that trees, where was a time when he did not see airplane at all and then the fire came up, is this true or not?
- S: I is true, it disappeared for a while.
- J: MR. Somphao did you ever heard when a helicopter is just flying over normally?
- S: Yes, I heard the regular noise of helicopter hefore.
- J: The first helicopter you heard did it sound anything like a regular helicopter?
- S: The first helicopter sound that I heard is dirrerent than a regular helicpter.
- J: The sound of this helicopter was completely different from nor-mal helicopter which he has heard.
- S: Before the flame, I heard sound of tub, tub, tub, and seem to me sound came from the engine, and one big "TUB" and then caught on fire.
- First the noise and then the fire, or the other way around?
- C: First the noise, and then the fire.

First before the chopper caught fire, he heard the noise like the engine sputter, tod, tod, tod, tod, and ten the stronger noise, a crash of noise and then fire.

- J: Did the crash of noise, sound anything like an explosion or sound like a piece of machine hit another piece of machine?
- S: I sound like a broken piece.
- J: HE definitely feels the sound not the sound of the bomb.

Fad side 1 Side 2

school through 4th grade, and was never in the army.

(3)

Testimony of Mr. CHAICHANA PROMJOM, Thai Civilian. The Preceeding is an accurate and complete transcription of information obtained by me from Mr. SOMPHAO KENGKOTE on 16 May 1975.

Chrichiama Promjer

Tar. CHAICHANA PROMJOM

Community Actions Specialist, 56 CSG/CA

The preceeding is a transcript of an interview conducted by the undersigned, using Mr. CHAICHANA as translator. The interview was conducted under my supervision at BAN DON KAEN, Thailand, on 16 May 1975.

DANIEL W. JACOROWITZ, Captain USAF

Chief, Military Civic Actions Branch

Subscribed and Sworn before me this 31st day of May 375.

JOHN F. GUILMARTIN, JR., MAJOR USAF Investigating Officer

Translation and trascription of interview of witness #1. J: Jacobowitz Mr. Somyod Mr. Opas Tane of interview inregard to the aircraft accident. The paticipants are Capt D.W. Jacobowitz, Thai interpreter is Mr. Opas Duangsamosora. We have here are eyewitness who lives in the village of Ban Don Kean. We are exeactly at the spot which he was standing when he saw the aircraft fall. This is a rice field, which is south of the village of Ban Don Kean, about one half Km. J: What is your name sir? S: Mr. Somyod Keancharong is my name. What were you doing here when you saw the airplane? J: S: I was frog hunting. Was it raining, or was it like this, or was the sun out? J: No rain at that time. Was it dark? 3: Yes, it was dark. It was dark at that time, when he saw the airplane. 1: When you were working here catching frogs, something made you looking at the airplane. What was it that made you look at the airplane, instead of the frogs? I looked at the airplane and hear the airplane stop normal flying, shut off my light and then I sat down. While only looked at the airplane because he heard it. We are standing here in the rice field. Have him point in the direction which where he saw the helicopter first. S: That side, where the fire and explosion came. He pointed almost due east. After you heard the noise originally you looked up at the air-aircraft. Did the noise change any from the aircraft from what you originally heard? Yes, the noise did change. After the noise changed you were looking at the airplane. Ji What happened next? After noise of the aircraft changed, I saw the white light on the aircraft explode, and blow up with sparks. (15)

- He saw sparks on the aircraft and white light. 0:
- When the aircraft was flying did it look like white light was on the back, front or one side He remembers heli-J: copter he saw the night that they put the stuff on the truck and it had lights on each side and light on the back. The sparkes come from which light, compared to the one he saw on the other helicopter.
- I saw the light on the rear end the aircraft. (Literally uses word for "ASS") S:
- indicated the rear of the aircraft. 0:
- The sparks came from the back of the aircraft. How did the other light on the airplane look when the sparks started? J:
- No other light at all. The other light went off. S:
- The other light went off? J:
- After the other light went off, what did he see next? J:
- I heard the sound, dum, dum, dum, dum, inside the aircraft. 5:
- He heard the engine problem. 0:
- He heard the engine problem. Can he make a noise that sounds like the engine did at that time?
- The sound, sounds like "Tu lu lu, tu lu lup"
- How many times? 0:
- Two times. S:
- Were the sparks also happening at the same time? .1:
- Have nothing, sir. Just noise.
- Don't see any sparks at all, just heard the noise only. 0:
- What happened next? J:
- The pra pup sound of the aircraft continued about 3 minutes and then I saw the light again. 5:
- O: He says after that about three minutes, he still hear about engine problem about three minutes and have light again. Light came on again.
- Was it a red light like he saw on the other helicpter? .7:
- I saw all red light, but not the normal light of the airplane above the river.
- Normal light or fire? 0:
- Not light from a bulb. S:
- Flame, not light. J:
- Was the flame on the bottom or an the top of the aircraft? 3: Could he tell at all? 170

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S: The flame I saw it looks like white light sparks like arcwelding, but the sparks stronger the first time I saw.

J: Yes, I understand.

- J: At this time, his pointing at a map on which he has shown where he is standing in the rice field, the place where he originally saw and noticed the helicopter and the snot of the original flames. He pointed to a spot where the helicopter had crossed the river and was approaching the river again which is an old stream with many curves in it, and makes a loop at the spot where he was stading. He pointed to where would have seen the light just prior to the helicopter crossing the stream a second time in the loop. After we got this point, and pointing in the map he said he saw the fire the second time. What happen after that?
- S: At this time the aircraft is far awa then aircraft go down and down and spinning and out of sight in the jungle.
- O: He says that, after that, he saw the plane, away, away from him, he can not see too good, but he look like the helicopter try down swing. Try to swing down.
- J: You moved your hand in a spiral motion. This indicates, that he throught it was already spinning. How could be tell that it was already spinning? Could he see the two lights of an ordinary helicopter are they operating or not at this time?
- S: The fire on the aircraft is not the ordinary light, but it exploded. "Tub, tub, tub," and it goes down and down, with abnormal sound of the aircraft.
- O: He saw down, down and look where next down, down all the time.
- J: OK. How much area of the sky did it take? I am moving my hand at a 45° angle. Did it fall, like this 45° a angle a 30° angle, straight down or like this.
- S: It's still for away from me but
- J: He indicates with his hand, the aircraft made gentle turn and suddenly fell.
- J: After it started to turn back, what happened at this point you have drawn on the map with a big circle?
- S: This indicates turn over to Ban Dong Koi.
- J: He was still flying smooth like this (like I move my hand) when it went over Ban Dong Koi?
- S: It too far away and out of my sight but the villager at Ban Dong Koy told me that some parts were found in the temple area.
- J: So let Lis not talk about what somebody told him. When it was over Ban Dong Koi he could not see it any more.
- S: After passed by Ban Dong Koi. I heard sound and saw the fire clearly after it crashed.
- O: He said he heard the engine problem after the helicpter passed Ban Dong Koi village.

. (11)

- J: He could still hear. Was it still making "bud da rup, wa ra rup" or different noise?
- S: Yes, same noise.
- J Nest thing he saw was a hig flame?
- Did he see the big flame here? He saw it shoot up from the ground or what?
- S: I came from this direction. I saw fire "soop" up and heavy smoke like a smoke from factory chimmey but the engine is still on.
- O: He said he saw hig flame one time, up from the ground, after that he saw smoke, he still hear the engine run.
- J: What is the engine run round like at this time?
- S: After I saw smoke, I heard the engine run about couple minutes, sound "Dung, dung, dung".
- O: He heard like engine run "dung dung" about two minutes. And what happen after two minutes?
- S: The engine stopped.
- O: He said the engine run too light, not hear too good. After that he did not hear anything.
- J: Not hear too good?
- J: When he saw the fire, at the moment he saw the fire, could he hear anything?
- S: I do not hear anything, except explosion.
- O: After that he heard the explosion.
- J: At the time he saw the fire, was that the last time he heard the engine or not? OK, it was.
- J: What did he do after he saw the fire?
- S: I put out the light, and ran through this field to jungle.
 I am afraid of aircraft and worried about my house.
- O: He too afraid, put out his light, run over to his house.
- J: He did not run toward the accident scene at all?
- S: I stayed home until the explosion was over and went to bed.
- J: He indicated to your that it turned back and came back over the river to the place where it crashed. How did he know that he turned back? Bid he get that from talking to people who live in this village or did he actually see that it turned back this way?

WY

0(18)

- S: I guessed it turned back. The man with the baby said it did.
 I saw some parts at Ban Don Koi and at the big wide rice field there is parts at Wat Don Koi. I saw a lot myself.
- Me is not sure that aircraft run back or not, but other guy with him, told him the plane try to come back. And he said he look at situation, at Ban Dong Koi there are many pieces of parts. He think that airplane tries to turn back, but he did not see with his eyes, he just estimate.
- J: OK, fine.
- J: Does he knows the man who is carrying the baby?
- S: Yes, I know him.
- J: Please tell me his name.
- S: Mr. Sampau.
- J: Where Does he live: (in Thai)
- S: Ban Don Dan Phan.
- J: You are already know that you did not get any trouble for talking to us, and we give come money and we going to give money again. Could you tell the man who had the haby that he will have no trouble if he comes to talk to us and he will get money too?
- S: No, I do not expect any money, but apologise for any mistakes in my statement.
- 6: He really want to help us, he does not expect any money, he sorry about this part here on map, he could not see too good, but he think should he this way, because he saw many people pick up parts right here.
- J: Indicating an area north of crash site.
- J: Did he actually see the helicoptor cross the river for second time? By his own eyes?
- O: he does not see by his own wyes but the man with the baby tole him. That man saw hetter than Somyod.
- J: We have to find the man with the haby.
- J: Tell him to make a noise like helicopter make he first heard it.
- S: The noise of the aircraft is not normal loud and soft noise.

 Opas, he says sound like an engine problem. Making a noise like an engine problem was the thing that drew his attention to the chopper.
- S: That was the first thing that made me look at the helicopter.
 This is the noise soft and loud Tum tum tum (high)
 Tum tum tum (low)
- J: Before this thing with a helicopter, has he ever heard a helicopter hefore?

(19)

Phil

- S: Yes.
- J: Now did it compare to the helicopter he has heard before?
- S: If it is normal when the aircraft fly by it wouldn't sound high and low, just dum, dum, dum, dum.
- J: Why did he look up at this helicopter?
- S: Just wanted to see it.
- J: How you been in the Army?
- S: Yes, drafted in the Army.
- J: Now far did he go in school? Did he graduate from high school?
- S: Yes, 4th grade, read and write.
- J: When you were in the Army, were your in the artilleny, the infantry, a medicapic or what did he do?
- S: A regular Army private.
- J: When you were in the Army did you ever fire an automatic weapon?
- S: No, but fired rifle, model 88.
- J: It's a holt action rifle, right? (actually u.s. M-1)
- J: Has he ever heard automatic fire?
- S: I never saw any type of automatic rifle. (This statement cannot he true)
- J: I was goint to ask him, if it sounds the same, but if he never heard before is no point in asking him that question.
- J: I don't think we have anything else accent we would like you to help us sometime. If you can; see the man with the haby, tell him to come to the base and we will pay for his ride on the bus, and give money to talk on the tape recorder the same way.
- So low we are going to get intouch with you?
- O: My supervisor will give you his personal card. Go to NKP DTAFE and call 3981 and then our MCA personnel will come and pick you up at the main gate.
- J: Thank you very much and we'll take you home now,
- J: This completed the interview. It should be noted the officer luring the interview is not rated.

Note: The Thai translator has indicated the witness uses the from of "I guess, of I think, or it could be" often, rather than the positive forms used by the other witness.

34

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(20)

Testimony of Mr. OPAS DUANGSOMOSORA, Thai Civilian. The preceeding is an accurate and complete transcription of information obtained by me from Mr. SOMYOD KEANCHAIRONG on 15 May 1975.

Tr. OPAS DUANGSOMOSORA
Community Activities Specialist, 56 CSG/CA

The preceding is a transcript of an interview conducted by the undersigned and using Mr. OPAS as translator. The interview was conducted under my supervision at BAN DON KAEN, Thailand on 15 May 18.5.

DANIEL W. JACOBOWITZ, Captain WAY

Chief, Military Civic Actions Branch

Subscribed and sworn before me, this 31st day of May 1975.

JOHN F. GUILMARTIN, JR., Major USAF Investigating Officer

AFFIDAVIT

Testimony of 2Lt Calvin O. Wachs,, HSAF

To the best of my knowledge, neither ILt Kays nor ILt Froehlich had done anything which might in any way have compormised their ability to safely accomplish the task in which they were engaged. Eased upon personal observation and contact, neither pilot appeared physically ill in the slightest amount so as to affect their flyling abilities.

After landing at the crash site sometime between 2145 and 2200 the same evening, the party of three, including one of our flight engineers and a flight surgeon, that went to the actual site reported being able to identify parts of the tail section of a H-53 helicopter. They also reported possible magnesium flames within the burning rubble and apparantly there were no survivors.

Cali O. Wachs

CALVIN O. WACHS, 2Lt, HSAF

Subscribed and sworn before me, this 30th day of May 1975.

JOHN F. GUILMARTIN, JR., Major, USAF

Investigating *Officer

AFFIDAVIT

Testimony of Major Howard A. Corson,, USAF

- 1. On 13 May 1975, I was serving in my capacity as Squadron Operations Officer, 21st SOS. Crew assignments to CH-53C 68-10933, Knife 01-3, were made under my supervision.
- 2. Lt Kays was scheduled to fly a local transition the morning of $13~{\rm May}~1975$. Official schedule published by DOO will provide details. Crew duty period started at $0800{\rm L}/13~{\rm May}~1975$.

Lt Froehlich flew a first pilot upgrade ride in the afternoon with Lt Lackey as I recall. Again the official DOO schedule will provide details.

The OPS - 10 Reports should be available in the squadron as an additional written record of the day's flights. "TARS" should also be available in the squadron. Lt Schoppelry's and Lt. Froehlich's training records are also available to provide insight into the day's training.

As our alert occurred the evening of 13 May 75, I began preparing aircrews and making tail number assignments for the flight to U-Tapao. My attempt was to organize crews as closely as possible to those crews flying the Saigon evacuation.

I assigned Lt Kays' as aircraft Commander on A/C 933.

I assigned Lt Froehlich as copilot on Aircraft 933. Lt Kuno had been Kays' copilot on the Saigon mission, however, because Lt Kuno's girl friend was on station I made the decision to let him remain at NKP, I did this because of the worsening situation in Laos etc. and increasing concern for dependents etc. at NKP. Lt. Froehlich did not participate in the Saigon mission as he was DNIF, Kays' and Froehlich made a very strong pilot team.

I assigned Sgts Cole and Riley to Kays' crew as they were on the Saigon mission with him. At approx 1945, I departed the squadron for my quarters to pack my gear as I was still in civilian clothes. About five minutes after I arrived at the quarters I received a call from MSgt Sherman, my Flight Engineer NCOIC. The subject discussed was the assignment we had made of Flight Engineers to Lt Brims' crew. Our objective in setting up aircrews is always to construct them to provide the most capable possible. Experience of aircrews is considered when setting up aircrews. We had set Lt Brims' crew up with two relatively inexperienced Flight Engineers and Lt Kays had two highly experienced types. To strengthen our aircrew configuration, I directed that Amn Weldon go on Lt Kays' crew and that Sgt Riley be placed on Lt Brims' crew.

Lit Kays had asked that I replace MSgt Cole on his crew because, in his personal opinion, MSgt Cole had been drinking. I did not discuss this with MSgt Cole at the time but rather concentrated immediately on replacing the crewmember.

(2.3)

I had extra flight engineers available, but due to previous changes to Lt Kays' crew as discussed in my prexvious written statement, I had to insure that MSgt Cole was replaced by a highly competent flight engineer.

My original decision was to place Sgt Hoffmaster on Lt Kays' crew. Sgt Hoffmaster was DNIF at the time the squadron was alerted but subsequently was returned to flying status. Time was of the essence as Lt Kays' aircraft was ready for pre-flight and immediate departure to U-Tapao. I could not locate Sgt Hoffmaster at the time so I directed that SSgt McMullen replace MSgt Cole on the crew.

In retrospect - I recall SSgt McMullen to have been one of the first to show at the squadron after the alert was initiated. I recall SSgt McMullen looking over my shoulder at the crew assignments and stating his desire to participate. I was not aware of any alcohol consumption by SSgt McMullen nor did I smell any on his person at that time and he was within 2-3 feet of me.

Lt Kays' accepted SSgt McMullen as his replacement Flight Engineer and made no comments questioning SSgt McMullen's capacity to perform his assigned duties. I personally was not informed by any person in the squadron nor did I have any knowledge that SSgt McMullen may have consumed some althol. If I had such knowledge I would have selected another Flight Engineer for Kays' crew.

Subsequent to Lt Kays' crew departure for the aircraft, I personally talked to MSgt Cole. I informed him that I had replaced in on the crew at Lt Kays' request because of Lt Kays' personal feeling that Cole had consumed too much alcohol. After talking to "MSgt Cole, I was of the opinion the MSgt Cole had been drinking but not excessively.

I feel confident that if there had been any question in Lt Kays' mind prior to departure that SSgt McMullen had been drinking, he would have requested another replacement Flight Engineer. Lt Kays was professional in every way, never accepted less than 100% duty performance - and thus I am confident that Lt Kays was not aware of any dirnking that evening by SSgt McMullen.

Flight orders had been typed and signed for Kays' original crew and changes made by the squadron operation clerks. An ICAO flight plan was signed and filed for Lt Kays' flight to U-Tapao. Lt Kays was briefed that his mission was to depart for U-Tapao with his assigned PAX load and await further orders at U-Tapao. Clearance to launch for U-Tapao was to be obtained from Warlock. Crew was briefed to double check aircraft loading that it was within limits and that the fuel load was to be 9500 lbs.

C (24)

 $\bar{\mathbf{5}}$. "The above statement is true to the best of my knowledge and belief."

HOWARD A. CORSON JR., Major, USAF

Squadron Operations Officer

Subscribed and sworn before me this 29th day of May 1975.

JOHN F. GUILMARTIN JR., Major, USAF Investigating Officer

Testimony of 1Lt. Donald R. Backlund, USAF

In my professional epinion, simultaneous loss of both generators in the H-53 at night, with no outside horizon reference available (visual horizon, cloud deck or ground lights), would result in loss of control. This would result from a total loss of control instrumentation and loss of stability augmentation modes of the AFCS (Automatic Flight Control System). Time available to attempt resetting of generators would vary with conditions and pilot experience/response. However, I would estimate that less of control would be total in no more than 25 seconds.

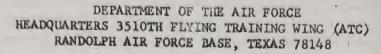
DONALD R. BACKDUND, 11t., USAF Chief, Aircrew Standardization and Evaluation Branch, 40ARRS

Subscribed and swern before me this 4th day of June 1975.

JOHN F. GUILMARTIN, JR., Major USAF Investigating Officer

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AERONAUTICAL ORDER 48

7 April 1972

1. The following 2D LT's, Det 1, 3615 AB Gp, ATC, Fort Rucker, AL, having successfully completed Course Number P-V4C-A-2, Undergraduate Helicopter Training Class 72-20, graduating 2 May 72, are awarded the aeronautical rating of Pilot, effective 2 May 72, per AFM 35-13, para 1-14c(3) and are required to participate frequently and regularly in aerial flights in such rating per Sec 102, EO 11157, 22 Jan 64 and AFM 35-13, para 2-5a. FSC changed from 7Y to 1Y. Officers will comply with AFM 35-13, para 2-12. Authority: AFM 35-13, para 1-7b(2).

JOHN L ANDRADE,
MICHAEL B LACKEY,
GARY B OKONOWSKI,
RONALD VICKROY,
JOSEPH D YOUNG,

JAMES E O'DAY,

JOHN S RANCK,

THOMAS F VRANISH,

HOYT S. VANDENBERG, JR., Colonel, USAF

2. Suspension from flying status of the property of the proper

CATABLAL DE CONTROLLES

Commander

DONALD E. REEL, Lt Col, USAF Chief of Administration DISTRIBUTION B

A0-48

D(3)

ACFT	TYPE OF CHECK	DATE COMPLETED	(Command)	TYPE	TYPE OF CHECK	DATE	SATFY/UNSATEN
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UNTE	INITIAL QUAL	18 Mug 72	VC (0) (2YC)				
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41-11	ANNUAL INSTRUMENT	31 me 13	1P(H)(SAC)			1	
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UHHF	Theirrigg	16 APR 74					
DH-53	Annual Qual.	4 Oct 74	Q-1				
09-53	Annual Inst.	3 Dec 74	Q-1				
DH-53	Initial Qual	12 Dec 74	Q-1				
H-53	Annual Qual/ Mission Qual	11 Feb 75	Q-1 ·				:
CH-53	IP upgrade	3 Apr 75	Q-1		(
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PACAF COCTA 126

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		CERTIFICA	TE OF AIR	CREW QUAL	LIFICATION	~.		,
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н.			CERTIFI	CATION				
DATE	CERTIFY that I have	a been briefed on the			nderstand the ac	tion being take	n this date	÷.
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E POHE	A PREVIOUS ED	ITION WILL BE USED.						

The mission was flown in the NKP local pattern, Chiang Khrua AB and the northeast confined area. All maneuvers were completed with Lt Kays occupying the left seat. The sequence of events was as follows: normal, steep and shallow approaches; maximum performance, normal, and running takeoffs, straight ahead, 90° and 180° autorotations, GCA with a simulated single engine approach and landing on final; confined area takeoff and landing followed by a simulated hoist pattern. During the evaluation the flight examiner assumed the role of student. It Kays planned and flew a very good check ride. His knowledge of systems in the aircraft is commendable. His instructional techniques and flying proficiency are very good. All Bold Face emerge by procedures were discussed on the ground or simulated in the air when feasibl. The Squadron Commander and Squadron Operations Officer were present for the debruef.

. DISCREPANCIES NOTED:

(1) EMERGENCY/PROCOUNTS (Autorotations), Item 1 (Critical) (Q). During the 90° turning autorotation Lt kays was late in applying correct rudder control allowing the aircraft to skid while in the turn. Recovery procedures were implemented and no other problems were noted.

C. RECOMMEND CORRECTIVE ACTIONS:

- (1) It Kays was extensively debriefed on the positive application of pedal during a turning autorotation, to allow for a smooth coordinated maneuver. No additional corrective action is recommended.
- D. ADDITIONAL COMMENTS: The Wing Commander, Deputy Commander for Operations and the Squadron Commander were present for the mission summary.
- 2. Reviewing Officer's Remarks: NON'E

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37 A. Se 100.

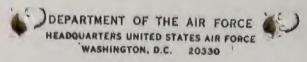
3. Approving Officer's Remarks: Lt Kays is qualified to perform as an Instructor Pilot in the CH-53 aircraft.

J(j):

1.00 (1.00 mg/s 1.00)

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D(6)



REPLY TO

AFMPC/DPMDOPZ RANDOLPH AFB TEXAS 78148

13 Jan 75

SUBJECTI

Correction of Aviation Service Date/Officer Service Date

TOI

Dase Flight Records Custodian 2849 AEG/OTER Hill AFB UT 84401

ILT James G. Kays

IN TURN

1. A review of Master Personnel Records reveals that the following Aviation Service Date(s) is/are incorrect or not recorded. The correct date(s) is/are as follows:

Aviation Service Date (ASD):

71 AUG 29

Officer Service Date (OSD):

Basis for correction: SO AA-509, Randolph AFB, 18 Aug 71, establishes UHT reporting date of 29 AUG 71.

- 2. Necessary changes will be input by this headquarters to correct the date(s) in APDS.
- 3. A copy of this letter will be permanently maintained with individual flight records, since it is furnished in lieu of orders or amendment thereto. This letter also serves as source documentation for submission of Military Pay Orders.

FOR THE CHIEF OF STAFF

FREDRIC D. MOISE, Major, USAF Chief, Officers Actions Section CY TO: AFAFC/MPJB

Directorate of Pers Data Systems

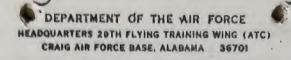
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AERONAUTICAL ORDER 183

3 Dec 73

The following 2D LT, Det 1, 29 ABGp, ATC, Ft Rucker, AL, having successfully completed Course P-V4C-A-2, Undergraduate Helicopter Training, Class 74-11, graduating 15 Jan 1974 are awarded the aeronautical rating of Pilot, effective 15 Jan 74 per AFM 35-13, table 1-1c(3), and are required to participate frequently and regularly in aerial flights in such rating per NO 11157, sec 102, 22 Jun 64, and AFM 35-13, para 2-5a. FSC changed from TY to 1Y. Authority: AFM 35-13, para 1-7b(2).

WALLACE H JONES,
HENRY M MASON,
DENNIS K MILLER,

FOR THE COMMANDER

OFFICIAL OFFICIAL TRAINING TRAINING

JOHN R. CHEMENTS, Captain, USAF Chief, Central Base Administration

DISTRIBUTION

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TYPE	TYPE OF CHECK	DATE COMPLETED	SATFY/UNSATFY (Command)	TYPE	TYPE OF CHECK	COMPLETED	SATFY/UNSATFY (Command)
CH-53	InitiallQual.	30 May 74	Q-1		4		1
CII-53	PACAFR 51-6	26 Jul 74	Q-2		T.		
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AF PORM 942 PREVIOUS EDITION IS OBSOLETE

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AF FORM 3 PREVIOUS EDITION WILL BE USED.

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1. A. MISSION DESCRIPTION: This was Lt Frochlich's Annual Instrument

Check IAW AFM 60-1. The mission was flown in the NKP Radar Traffic Pattern. All required maneuvers were completed to include: Unusual attitude recovery, steep turns, holding, fix to fix navigation, one GCA, one ASR approach, and one TACAN approach followed by a missed approach. Spatial disorientation was demonstrated. All bold face emergency procedures were discussed on the ground or simulated in the air when feasible. Ground egress and cockpit familiarity were demonstrated. Lt Froehlich has excellent control touch and shows a sound knowledge of instrument procedures. The Squadron Commander was present for the mission oritique.

- DISCREPANCIES NOTED: None
- RECOMMENDED CORRECTIVE ACTION: None
- D. ADDITIONAL COMMENTS: "The Wing Commander, Deputy Commander for Operations and the Squadron Commander, were present for the mission summary.
- 2. Reviewing Officer's Remarks: Mow
- 3. Approving Officer's Remarks: 'Now

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DEPARTMENT OF THE AIR FORCE HEADQUARTERS 56TH COMBAT SUPPORT GROUP (PACAF) APO SAN FRANCISCO 96310

AERONAUTICAL ORDER

2 May 1975

- 1. MAJ THOMAS W. WHITE JR., 7AF, PACAF, this stn, is awarded the aeronautical rating of Command Pilot per AFM 35-13, table 1-1a. Authority: AFM 35-13, para 1-7b(3).
- 2. So much of AO 47, 313 CSG, 12 Apr 72, pertaining to the crew member status of SSGT HARRY H. BLANTON JR., 21 SCS, PACAF, this stn, is amended to include: "EFFECTIVE TERMINATION DATE 15 May 75".
- 3. Para 1, AO 186, 834 CSG, 4 Nov 71, as amended by AO 77, 363 CSG, 8 Nov 73, which designated SSGT DONALD R. MCDOWELL, 21 SCS, PACAF, this stn, as a crew member, are rescinded effective 2 May 75. Reason for rescission: Reaccomplishment of AO. Authority: AFM 35-13, para 5-7b and para 5-9a(7).
- 4. AO 28, 50 TFW, 20 Aug 70, which designated SSGT GEORGE E. MCMULLEN, 21 SOS, PACAF, this stn, as a crew member, is rescinded effective 2 May 75. Reason for rescission: Reaccomplishment of AO. Authority: AFM 35-13, para 5-7b and para 5-7a (7).
- 5. AO 42, 803 CSG, 21 Jun 74, which designated SSGT NICK MORALES,

 , 21 SOS, PACAF, this stn, as a crew member, is rescinded effective 2 May 75. Reason for rescission: Reaccomplishment of AO. Authority: AFM 35-13, para 5-7b and para 5-9a(7).
- designating TSGT EMORY L. CRAIG JR., 21 SCS, PACAF, this stn, on 1 Feb 75 designating TSGT EMORY L. CRAIG JR., 21 SCS, PACAF, this stn, DAFSC A43170C, as an optional crew member to participate in frequent and regular aerial flights are confirmed, exigencies precluded written orders in advance. EFFECTIVE TERMINATION DATE 29 Jan 76. In flight duties to be performed are essential to the accomplishment of the mission of the CH-53 aircraft. Only flying time which is required, performed and logged in above specified aircraft will be creditable for pay purposes. This order remains in effect after discharge and immediate reenlistment provided there is no PCS, break in service or change in duty assignment which would change airman's flying status. Hazardous duty status is changed to 1. ASC is changed to 9D. Authority: AFM 35-13, para 5-7D.

A0-13

0 (15)

7. Verbal orders of the Comdr, 56 SOW, PACAF, this stn, 20 Apr 75, designating SGT DALE H. THUROW, 40 ARRS, MAC, this stn, DAFSC A43150C, as an optional crew member to participate in frequent and regular aerial flights are confirmed, exigencies procluded written orders in advance. EFFECTIVE TERMINATION DATE 10 Apr 76. In flight duties to be performed are essential to the accomplishment of the mission of the HH-53C aircraft. Only flying time which is required, performed and logged in above specified aircraft will be creditable for pay purposes. This order remains in effect after discharge and immediate reenlistment provided there is no PCS, break in service or change in duty assignment which would change airman's flying status. Hazardous duty status is changed to 1. ASC is changed to 9D. Authority: AFM 35-13, para 5-7b.

S. Each of the following named airmem, 21 SOS, PACAF, this stn, DAFSC indicated, is designated as an optional crew member to participate in frequent and regular aerial flights effective 2 May 75. EFFECTIVE TERMINATION DATE is indicated. In flight duties to be performed are essential to the accomplishment of the mission of the CH-53 aircraft. Only flying time which is required, performed, and logged in above specified aircraft will be creditable for pay purposes. This order remains in effect after discharge and immediate recombistment provided there is no PCS, break in service or change in duty assignment which would change airman's flying status. Hazardous duty status is changed to 1. ASC is changed to 9D. Authority: AFM 35-13, para 5-7b.

GRADE, NAME, SSAN	DAFSC	TERMINATION DATE		
SSGT DONALD R. MCDOWELL, SSGT GEORGE E. MCMULLEN, SSGT NICK MORALES,	A431500 A431700 A431700	2 Jun 75 19 Jul 75 29 Jan 76		

FOR THE COMMANDER

RUSSELL K. LEDROUX, MSgt, USAF Asst Chief, Central Base Administration

DISTRIBUTION "D"





DEPARTMENT OF THE AIR FORCE HEADQUARTERS 56TH COMBAT SUPPORT UROUP (PACAF) APO SAN FRANCISCO 96310

SPECIAL ORDER PA-022

21 September 1974

1. The following officers, 7 AF, PACAF, this stn, are assigned Aviation Service Code as indicated effective date indicated. Author AFM 60-352.

	ASC	14.	Effectiva		
COL BENJAMIN F INGRAM,	35		10 Jun 74		
CAPT RONALD W IVERSON,	1K		31. Jul. 74		
CAPT GARY S OLIN,	JK		15 Jun 74		

2. The following airmen, organization indicated, PACAF, this stn, are assigned Aviation Service Code 9D effective date indicated. Auth: AFM 60-352.

TSGT	GORDON :	F DAHLUND,	
		T HALL JR,	
	ROY D W		
	GENE O		4
		W DIEHL,	
SSGT	JON D H	ARSTON,	
SSGT	GEORGE :	E MCMULLEN,	*****
SSCT	BILLY R	MIZELL,	
SSGT	NICK MO	RALES,	
SSGT	DUANE F	MOUNTAIN,	
SSGT	KENNETH	S ROCKNEM,	
SGT !	PERRANCE	W ARNOT,	
SGT 1	HENRY H	BLANTON,	

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Effective Organization

FOR THE COMMANDER

ames w Kato JAMES W. TATE, Major, USAF Chief, CBPO

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SO PA-022

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DH-53	Requalification	1 Jul 74	Q-1 (PACAF)		Y , , ,		
H-53	PACAFR 51-6	20 Aug 74	Q-1		+		
H-53	Instructor Upgrade	10 Jan 75	Q-1				
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1. A. MISSION DESCRIPTION. SSgt McMullen was administered his PACAFR 51-6 flight evaluation during a local area training flight. All required areas of PACAFM 60-11 were evaluated. All Bold Face Emergency Procedures were discussed on the ground and simulated in the air when feasible. Cargo sling and troop loading/unloading were simulated. This completes SSgt McMullen's Theater Indoctrination and he is certified combat ready.

B. _ DISCREPANCIES NOTED: "

- (1) SPECIAL QUALIFICATIONS, Item 4 (Q/T). SSgt McMullen used the incorrect rotor RFM baseline when figuring blade stall data. As a result, he had approximately 20 knots error in his maximum airspeed.
 - C. RECOMMENDED CORRECTIVE ACTIONS:
- (1) During debriefing, SSgt McMullen was demonstrated the correct way to compute blade data and on three subsequent problems no discrepancies were noted. No additional action is required.
- D. ADDITIONAL COMMENTS: The Wing Commander, Deputy Commander for Operations, and the Squadron Commander were present for the mission critique.
- 2. Reviewing Officer's Remarks: None
- 3. Approving Officer's Remarks: SSgt McMullen is certified Combat Ready and will perform in that status.

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DEPARTMENT OF THE AIR FORCE HEADQUARTERS 56TH COMBAT SUPPORT GROUP (PACAF) APO SAN FRANCISCO 96310

"SPECIAL ORDER PA- 005 12 February 1975

1. So much of para 4, SO PA-002, this Hqs, 28 Jan 75, relating to the assignment of Aviation Service Code to MAJ JOHN F. GUIIMARTIN JR., 40 ARRS, MAC, this stn, as reads: "ASC 2A", is amended to read: "ASC 5A".

2. The following named personnel, organization indicated, are assigned Aviation Service Codes as indicated with effective date indicated. Authority: AFM 60-352.

GRADE, NAME, SSAN	ASC ELT	ECTIVE	ORGN
COL HARRY A. GOODALL,	2K 11	Jul 74	56 SOW
MAJ ROGER D. SHIELDS,	2A 2 2K 7	Feb 75 '	7AF
LT COL' JOHN A. SUTHER,	3K 21	Dec 74 "	7AF
MAJ NORMAN E. DAVIS,	2K 16	Dec 74	3 ARRG
MAJ HUCH S. WEBBER,		Jun 74	56 SOW
	2K 6	Jan 75	
LT COL LEWIS G. VALE,		Feb 75 I	Det 11,1131 SAS
LT COL CLEVELAND E. FORRESTER,	38 40 0	Jan 75	3 ARRG
MAJ CLIFFORD B. FALLON,	2K 5	Feb 75	Det NBOO, SAC
MAJ BRUCE E. GILLESPIE,	2K 26	Mar 75	Det 11, 1131 8AS
. MAJ RICHARD HENDERSON,	2A 6	Féb 75	23 TASS
MAJ CHESTER W. GRIFFIN,	2J 20	red />	TAR
MAJ CHARLES D. VERVISCH,	06	Mar 75	56 SOW
MAJ RICHARD A. RAYMOND,	23 20	Feb. 75	3 ARRG
CAPT RICHARD T. JONES,	1P 20 1P 20	Feb 75	3 ARRG
THE THE PAYED POVIE	1P 20	Feb 75	Det 5, 621 TCS
MAJ GARY A. MICHELS,	2J 20	Feb 75	7AF
MAJ GARY A. MICHEIS, MAJ WILLIS E. PEMBLETON,	2J 20	Feb 75	Det 11, 1131 SAS
MAJ CHARLIE W. HASTINGS,	AU LO	Feb 75	Det 11, 1131 SAS
MAJ DALE L. HENSLEY,	Zd ZU	Feb 75	7A2
MAJ JOHN D. HUCHES,	2K 12	Feb 75	Det 11, 1131 SAS
MAJ RONALD B. CHILDERS,	1B 20	Feb 75.	56 SOW
	1K 7	Mar 75	- 44 '44'01 '010
MAJ CHARLES L. HAMBLE,	18 20	Feb 75	Det 11, 1131 SAS
MAD CAUCAS DE IN-	7.	Mar 75	
MAJ DARWIN N. ORRELL,	1B 20	Feb 75	Det 11, 1131 SAS
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THE THE PERSON TO THE PERSON T	1B 20	Feb 75	Det 11, 1131 SAS
MAJ NORMAN L. PFEIFER,			
CAPT ROBERT A. HESTON,	1B _ 20	Teb 75	Det 11, 1131 SAS
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ASC! EFFECTIVE GRADE, NAME, SSAN Det 11, 1131 SAS Det 11, 1131 SAS . CAPT PAUL R. AARNIO, 1K 7 Mar 75 7 Mar 75 CAPT JAMES A. ABELS, CAPT JOHN S. COBB, 1K 1987 Comm Sq Mar 75 1K CAPT RUFUS T. COBURN III, 1K Mar 75 7AF CAPT JOHN D. GODFREY III, Det 5, 621 TCS 1K Mar. 75 7 Mar 75 CAPT RONALD W. IVERSON, 1K 7AF Det 11, 1131 SAS 23 TASS CAPT JOSEPH L. OBERLE, 4K 7 Mar 75 7 Mar 75 CAPT TIMOTHY P. KILLEEN, 1K Det 5, 621 TCS 23 TASS CAPT LEE H. RICHEY, 1K Mar 75 Mar 75 1P CAPT LAWRENCE J. LITTLE 40 ARRS CAPT D. VIO G. ROUSSEAU JR, 11 15 Feb 75 11A 23 TASS 19 Jul 74 2D LT LEE E. WANDEL, 23 TASS 27 Jul 74 2D LT VINCENT G. HILOSEVICH, 14 24 Jul 74 21 SCS 9D MSGT BARRY SHERMAN, Aug 74 21 SOS SSGT MICHAEL C. WILSON, 9D 5 9D Aug 74 21 \$05 SGT RANDY L. HOFFMASTER, 1 Jul 74 21 S.CS 9D ALC PHILLIP A. PACK, 5_Aug_7/__21_SOS ALC ROBERT P. WELDON,

3. The following named officers, organization indicated, are assigned Aviation Service Code as indicated, effective 20 Feb 75. Authority: AFM 60-352.

GR	ADE, NAME, SSAN	ASC	ORGN
LT	COL GERALD A. BLAKE, COL DENZIL H. BOYD JR, COL DONALD L. BROOKS, COL RALPH L. BROWN,	2J 3J 3J 3J	7AF Det 11, 1131 SAS 10 Wea Sq Det 11, 1131 SAS
LT	COL FRANK K. BRYARS, COL RICHARD G. CHAPPELL, COL DAVID C. CONNETT, COL ROBERT R.I. CORBELL, COL ALBERT F. DISANTE,		Det NBOO, SAC Det 11, 1131 SAS 7AF 7AF Det NBOO, SAC
LI	COL NICHOLAS J. DONELSON, COL SILVIO L. DORAZIO, COL NORMAN H. FITZSIMMONS, COL DONALD W. GARDNER JR., COL PAUL E. GLAAB, COL JOHN F. HILGENBERG,	3J 3J 3J 3J 2J 2J	7AF 7AF Det 11, 1131 SAS Det 11, 1131 SAS Det 11, 1131 SAS Det AE11, USSASQ

FOR THE COMMANDER

amos Wilate JAMES W. TATE, Major, USAF Chief, CBPO

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DEPARTMENT OF THE AIR FORCE MEADQUARTERS 2046TH AIR BACK GROUP (AFLE) HILL AIR FORCE BACE UTAH 24408

AERONAUTICAL ORDER AO-107

24 July 1974

Alc ROBERT P WELDON, 1550 CAMS/Sec A, MAC, this stn, is designated a primary crew member per AFM 35-13, para 5-4c(1), and is required to participate in frequent and regular aerial flights for an indefinite period effective 5 Aug 74 in preparation for reassignment. In-flight duties to be performed are essential to the accomplishment of the mission of the H-53 aircraft, and only flying time which is required, performed and logged aboard above specified aircraft will be creditable for pay purposes. This order remains i. effect after discharge and immediate reenlistment provided their is no break in service or change in duty assignment which would change airman's flying status. Hazardous duty status code 1 is assigned. Authority: AFM 35-13, para 5-7.

FOR THE COMMANDER

BYRON F. C. MSTIANSON Chief of Administration

DISTRIBUTION

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1. A. MISSION DESCRIPTION: This flight evaluation was completed during a local training mission. Pre-flight inspection was covered on the ground, along with TOLD data and the Form 365F. During the flight phase, hoist, ladder, sling, confined area work, and weapons arming/dearming were evaluated. Simulated emergencies were given, electrical failure to the hoist, and inter comm failure. All Bold Face emergency procedures were discussed on the ground and simulated in the air when feasible Tactical TOLD problems were evaluated during this flight. This evaluation was debriefd with the 21SOS NCOIC for helicopter mechanics present. I recommend AIC Weldo: be certified Combat Ready.

B. DISCREPANCIES NOTED:

- (1) PRE-FLIGHT, Item 2, (QT). AIC Weldon demonstrated marginal knowledge of inspection requirements, and his knowledge of equipment location is marginal.
- (2) PRE-TAKEOFF, Item 4, (QT). AIC Weldon called checklist complete before co-pilots window was secure, also takeoff clearance from tower had not been received.
- (3) SPECIAL QUALIFICATIONS, Item 1, (QT). During hoist work, AIC Weldon's transmissions contained extraneous information, and he was slow in getting the aircraft positioned correctly over the survivor.
- (4) EMERGENCY PROCEDURES, Item 2, (QT). AIC Weldons knowledge of operating limits is marginal for engine temp and transmission torque limits.

C. RECOMMENDED CORRECTIVE ACTION:

- (1) AIC Weldon should be given four (4) hours of instructor supervision ground training performing a pre-flight inspection, stressing what to look for, and equipment location. He has been thoroughly debriefed on what is expected of him during his pre-flight.
- (2) AIC Weldon was debriefed on the importance, of making certain all checklist items have been completed prior to calling checklist complete. No additional corrective action is recommended.
- (3) AIC Weldon was debriefed on the importance of transmitting only essential data and I recommend one training flight with an instructor emphasizing the positioning of the A/C over the survivor in minimum time.
- (4) AIC Weldon was thoroughly debriefed on engine and torque limitations. Recommend AIC Weldon be given one (1) hour of ground training, supervised by an instructor, covering aircraft limitations with emphasis on engine and torque limitations.
- D. ADDITIONAL COMMENTS: The Wing Commander, Deputy Commander for Operations and Squadron Commander were present for the mission summary.
- 2. Reviewing Officer's Remarks: NONE
- 3. Approving Officer's Remarks: AIC Weldon is certified Combat Ready in the CH-53 aircraft.

4. Corrective Action Completed: a. On 15 AAR 75, AIC Weldon demonstrated adequate and in depth know-ledge on how to perform a pre-flight inspection and equipment location toght median and demonstrated correct voice and hoist procedures. c. On 21 MAR75, AIC Weldon demonstrated adequate knowledge of air-JOHN H. DENHAM, It Colonel, USAF Commander

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The following passengers were seated on the floor of the cargo compartment facing inboard, and received fatal injuries upon ground impack. Survival was not possible.

	NAME	GRADE	SSAN
1.	BLACK, JIMMY P.	SCT	
2.	COLLUMS, BORBY C.	SCT	
3.	COYLE, GERALD A.	SSCT	
4-	DWYER, THOMAS D.	SCT	
5.	FORD, BOB W.	SCT	
6.	FRITZ, GERALD W.	SCT	
7.	GLENN, JACKIE D.	TSCT	
8	HAMILIN, DARRELL L.	SCT	
9.	HANKAMER, GREGORY L.	scr	
10.	HIGGS, DAVID A.	SGT	
11.	ILAOA, FALEAGAFULU	SSCT	
12	LANE, MICHAEL D.	scr	
13	LONDON, DENNIS W.	AlC	
14.	MATHIAS, ROBERT P.	AlC	
15.	MCKELVEY, WILLIAM R.	SCT	
16	MORAM, EDGAR C. II	Alc	
17	NEALIS, TOMMY R.	AlC	
18.	RABER; PAUL J.	SCT	
19.	ROSS, ROBERT W.	SCT	

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13 : 12 25 23 17 7 75	
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N SINCE	

1410 - Invert, Knife One dash Three level at 9 thousand.
- Hello, Knife One dash Three Invert sixteen radar contact, radar monitor.

- Knife One dash Three, Roger.

गमा -

1412 -

1413 -

1414 -

1415 -

1416 - Knife Zero One dash Three, Invert.

- Knife One dash three, Invert. - Knife one dash three, Invert.

1417 -

1118 - Invert, Invert Knife one dash two.
- Knife one dash two this is Invert Sixteen Radar C Radar Monitor.

- One dash two.

- And Knife one dash two, would you try to contact Knife one dash three? we're having a little trouble talking to him.

- Roger Sir, wilco.

1419 -

1420 - Invert, Invert, one dash two.

- Go ahead one dash two.

- Roger Sir unable to contact one dash three on uniform frequency at this time. (Garble)

- Roger sir, thank you.

1421 - Knife one, Knife one, Invert.

- Knife zero one go.

- Ah Roger sir you haven't had any contact with Knife one dash three, have you? We seem to have lost radio contact with him.
- Negative. We haven't. We'll try.

- Invert (Garbled)

- Invert's on, go ahead.

- Ah Roger this is one dash two are you showing radar contact with one dash three?

- Thats a negative sir.

1422 - Ah this is one two. Can you give us an idea of how much in advance he was of us? Ah maybe five minutes. Ah was he scheduled to ah fly out to ahthese various points and new straight on down to U-Tapao. Ah yes sir I think that is affirmative. Ah right sir. Well ah we lost, we lost radar and radio contact with him ah just a little hit farther out than you are right now. 1423 - Knife zero one dash three knife zero one dash one this is Invert on guard If your copy come up 292.3 292.3. Invert out. 1424 - Invert, Knife zero one has negative contact with one dash three. - Roger ah, thank you. Zero one ah, I'm showing you how on the two three two radial for one hundred miles offour house, does that check? - Right sir that checks. - Roger sir thank you. - Invert, knoef one dash two. - Go ahead one dash two. 1425 - Roger sir ah could you try to pinpoint our position when we reach the spot you lost, radar contact with one dash three. - Ah, Roger sir ah, you're pretty close right now. - Ah we, we, can't seem to ah raise him on radios and ah no one else seems to be talking to him either at the moment. - Roger sir we just passed a fire at nine oclock. - Ah Roger sir, you might want to hold up for a minute here and let us check this out. - Knife zero one dash two copies sir. - Zero one dash two will be holding in an orbit and we'll go over and see if we can get a closer look at the fire from our present altitude. - Roger 1426 - Knife zero one, contact Korat 271.2, 271.2 - Knife zero one. - 271.2 roger. 1427 - Invert, Invert, Knife one dash two. - Go ahead one dash two. - Ah Roger sir We're in the vicinity of one sighting We'd like to ah drop on down to about ah four thousand feet at this time. 1428 - Ah Roger sir we show no other traffic in the area at this time. Ah maintain level, VMC. - Ah roger sir, and keep us of advised of any traffic in the area, if you would please. - Roger. 1429 -1430 -13-15 Tol

1431 - Invert, Invert knife dash two. - Go ahead one dash two. - Ah roger sir were presently at 4 M we've got a fire in sight and ah appears to (Garbled) on the fire of some sort. Ah were gonna descend on down another thousand feet. See what he can find. - Ah Roger sir ah Im shown the minimum safe altitude in that area as 4500 feet, ah do you have some better, better charts that you ah can tell what what your minimum safe altitude is shown. there - Ah roger sir we have then on board. We'll go ahead ah level off at-45 and see what we can find here. V Got a chart out at this time. - Ah, right sir. I haven't . 1432 - Invert, Invert one dash two. - Go ahead one dash two. - Ah roger sir it appears that ah we got (Cut Out) like, it might be ammo. - Roger - Invert, Invert one dash two. - Go one dash two. - Ah roger sir, it appears as if we got a flare. One of the flares that was or the aircraft going off this time. - copy 1433 - Have we got any other aircraft in the area, ah, a little bit lighter than tre are. - Say again please. - Say again Invert. - Roger would you repeat your last ah transmission. - Ah roger sir, have we got any aircraft available that's light enough.
We're awfully heavy to go down any lower and wall around close to the - Ah roger sir, maintain your altitude ah were talking with JRCC right now. 1434 - 1 1435 -1436 - Knife one dash two, Invert. - Invert one dash two go. - Ah roger sir. It looks like there scrambling off some jollys at this time ah I dont know whether there going to want you to hold out there or move on or what. Ah what are your intentions at this time? - Invert one dash two go ahead sir. - Ah roger one dash two ah they are scrambling off some Jollys and ah what are your intentions. Can you stay in the area or are you going to have to move owor what.

F (3)

19 47 - JA

1437 -

1438 - Invert Invert one dash two.

- Go ahead sir.

- Ah roger sir ah we've advised by our command post that ah he'll be ah working joker at this time. We'd like to leave your frequency and go 28 28 and if you have any info you want to pass to us would please call on guard.
- Ah roger sir standby one.

The above transcript was compiled by me from the relevent tapes and is a full and accurate transcript to the best of my knowledge.

DAVID A. FORD, 2Lt USAF Duty Controller

Subscribed and sworn before me, this 29th day of May 1975

JOHN F. GUILMARDIN, JR., Major USAF Investigating Officer

F(4)

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AFFIDAVIT

TESTIMONY OF MAJOR JOHN M CALLACHAN,

There was no formal weather briefing given to the crew. 175-1s were prepared to be given to the crews by the duty officer, LtC Jenkins. LtC Jenkins was shown the FPS-41 radar which indicated two areas of severe weather 20-40 miles SW of NKP and 120-150 miles SW of NKP on the direct route to Korat. I suggested if they had to deviate that they should go to the south. I also told him that they could get further information on the heavy weather by calling us on PMSV. At no time did the aircraft directly contact base weather before or after takeoff. The estimated weather at the time and place where the aircraft crashed was 030 SCTD 110 BRKN 300 OVC 7 CCNL RA-. Radar indicated that there was no convective activity in the area from 260 to 285 degrees 30 to 50 miles from NKP.

JOHN M CALLAGHAN, Maj, USAF OIC, Base Weather Station

Subscribed and sworn before me, this 28th day of May 1975.

JOHN F GUILMARTIN, JR., Maj, USAF Investigating Officer

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AFFIDAVIT

Testimony of Capt. Lary A. Robinson, Chief, Aerometical Services

After complete review of the medical records of the crewmembers of Knife 01-3 which crashed 13 May 75, and as their flight surgeon, I find no evidence of physical or mental illness nor evidence of alcohol or drug addiction present in any of these airmen.

Jary A. Robinson, CAPT, USAF, MC, FS

Subscribed and sworn before me, this 2nd day of June, 1975.

OHN F. CUILMARTIN, Jr., MAJOR, USAF Investigating Officer

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PHYSI	E DEEN GROUND	ICATION	FOR	FLY	ING D	UTY.	13. FLYING CATEGORY	14. AC	TUAL	DATE		134	- CAT	144-0	
	I AM PHYSICALLY QUALIFIED FOR FLYING DUTY.					UTY.	14	neolically incapa- citated to fly 18 Apr 75				1	21)	75%	
SIGNATURE OF FLYER						• •	FLT ROMTS WERE	16. ES	T DUR	ATIO	N OF	· 💥			
3. CLEARANCE FOR FLYING DUTY IS GIVEN UNDER THE FOLLOWING CIRCUMSTANCES:							17. SERIOUS ILLNESS, IF	te- FL VE	YING	Day:			TOTA		
REPORTING TO A NEW STATION						1	YES NO	☐ YE			40	118	£25	ed .	
ANNUAL MEDICAL EXAMINATION							20. GLASSES WILL BE WORN WHILE PERFORMING THOSE DUTIES REQUIRING CORRECTED VISUAL ACUITY								
OTHER R	EQUIREMENT FOR	R CLEARA	NCE	(Spe	el fy	j	21. TOTAL DAYS. (No. of days from actual date of incapacitation (Item 14) to date of certification by competent authority as						21 - TOTAL DAYS (30-32)		
4. DATE FLIG	HT CLEARANCE E	EXPIRES		_	_	1	physical qualified to 22. DAYS DURATION IN M	fly)_			-	22 · D	EST AYS IN	FCL 1	
5.							figure from AF Form 58	5 "Tota	l to	Date	·	(3377		
INDI	VIDUAL PRESE	NTLY SU	SPE	NDED	BY		TYPE OF ACTION	1		YEAR D MO		С	IRCL E		
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DATE							REMOVAL OF EXCUSAL		***				4		
6. COMPETENT (6. of item 2: certify as pi	CERTIFYING AUT 3 is circled, hysically qual	indicat:	When	n bo ther	x 4,5	5. or	REMOVAL OF GROUNDING					_	5	****	
E BASE	NO. AIR FORCE	MAJO			но	USAF	REMOVAL OF SUSPENSION						6		
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25 Apr 75							pecify resultant condit.	ione In	om an	y .		CAL	ODEST		
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MLD RECOMMEND	ATION FOR FLYING	ל יעט						-
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10 MIN. ONO. THE TITL		7 : 607	OE TOTAL			7A , GHAD (5- 6	1 .	heet
CERTIFICATE (FOR INCOMING FLYING PERSONNEL ONLY) I CERTIFY THAT I AM ON FLYING STATUS ACCORDING TO CURRENT DRIEFS AND THAT I HAVE HAD NO ILLNESS OR FIJURY SINCE LCAVING MY LAST STATION, EXCEPT AS	100000000000000000000000000000000000000		***	***		9. SSAN	(9-	
RECORDED BELOW. I CERTIFY THAT I HAVE BEEN NOTIFIED OF THE REC- OMMENDATIONS BELOW AND UNDERSTAND THE ACTION	21 505	(p/c				(18)	mp 0	r n.34
BEING TAKEN THIS DATE. I HAVE BEEN OFFICIALLY NOTIFIED THIS DATE THAT,	11. RAYING DESG OR FLYING DUTY	12. CO ME	MBAT	AIRCE	REW			12A-COM- BAT (20
I HAVE BEEN GROUNDED (OR EXCUSED) BECAUSE OF PHYSICAL DISQUALIFICATION FOR FLYING DUTY.	13. FLYING CATEGORY	14. AC	TUAL	DATE	FOUND			A - DAT
1 AM PHYSICALLY QUALIFIED FOR FLYING DUTY.	90	2	TATEO	TO F	5			e se y
Burn & MAN GETTE	FLT ROMTS WERE LAST MET	IG. ES	CAPAC		O FLY			
5. CLEARANCE FOR FLYING DUTY IS GIVEN UNDER THE FOLLOWING CIRCUMSTANCES:	17. SERIOUS ILLNESS, IF "YES", ATTACH SF 88	18. FLY				TIME (16 - 29	
ANNUAL MEDICAL EXAMINATION	20. GLASSES WILL BE WE THOSE DUTIES REQUIRING ACUITY	G CORREC	E PE	VISUA	ING	*****		
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4. DATE FLIGHT CLEARANCE EXPIRES	22 - DAYS DURATION IN M figure from AF Form 56					22 - DAYS (33-3	N FA	CILIT
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AERO ORDER NO.	EXCUSAL NOT TO EXTEND BEYOND LAST DAY OF			. **			ľ	
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ATE	REMOVAL OF EXCUSAL						4	
. COMPETENT CERTIFYING AUTHORITY (When box 4,5, or 6, of item 23 is circled, indicate authority to certify as physically quelified)	REMOVAL OF GROUNDING			***			5	
BASE NO. AIR MAJOR HO USAF	REMOVAL OF SUSPENSION	111	24.p			нЕ	6	1
EMANA			1	7.	2	1 1	1	V
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s. IND	IVIDUAL PRESE	NTLY SUSPEN	DED BY	TYPE OF ACT		YEAR AND MONTH		E ONE	
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STAC				REMOVAL OF EXCUSAL			×	4 .	
	CERTIFYING AUT 23 is circled, physically quan		box 4.5, or hority to	REMOVAL OF GROUND!	NG		×	5	
BASE	NO. AIR	MAJOR	HQ USAF		N \	24 - p	₩ E	§ s	
EMARKS				<u> </u>		PUL		3	
DATE	TYPED/PRINT	ED NAME AND	GRADE OF FLIG	HT SURGEON OR FLIGHT	SIGNATUR		1 1 1 7	11 1	
	MEDICAL OF	orious condi	tion first.	Specify resultant co	indition T	rofe any	CODE (PRIMARY D		
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2.5 317701.5					7. GRA	DE	7A.GHADE	1 . AGE (7 - 2		
E.	,	FICATE				0000	[5-6]	218		
- C ****						*****	9. SSAN	(9-17)		
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				FLIGHT FAGTHERS	- YES	Z NO				
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1 1 MM	PHYSICALLY QU	ALIFIED FOR FL	YING DUTY.		MED	ATED TO FLY	(21)	(22-25		
I GNATURE OF				UNCOUDITIONAL		-				
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CLEARANCE FOR FLYING DUTY IS GIVEN UNDER THE				17. SERIOUS ILLNESS, IF "YES", ATTACH SF 08	"YES", ATTACH SF 08 EA					
REPORT	ING TO A NEW S	TATION		YES NO	YES.	NO NO	1000	t		
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ERO GADER NO				BEYOND LAST DAY OF			1			
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s, of item 2	CERTIFYING AUT 3 is circled, hysically qual	indicate outho	ox 4,5, or city to	REMOVAL OF GROUNDING	XXX		5			
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ATE	TYPED/PRINTE	D NAME AND GR	ADE OF FLIGHT	SURGEON OR FLIGHT SI	GNATHAL	7	+ + + -	10		
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(De · _ /Ane	sin for oth	ATION FOR FLYING	· · · · ·				
10: GOLDHALER: 21 303	,	FROM: 56 UCAF HOLE			,	HOSP COD	(1-4)
1. LAST NAME-FIRST NAME-MIDDLE INITIAL		APO ST 26310	7. GRAI	E		7A.GRADE (5-6)	B. AGE (7-8
TITI DOD, DODNOT P.		****	*****	130	V V V V V	4	7.9
CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE CERTIFICATE ONLY) THAT I AM ON FLYING PERSONNEL ONLY) THAT I AM ON FLYING STATUS ACCORDING ORDERS AND THAY I HAVE HAD NO ILLNESS SINCE LEAVING MY LAST STATION, EXCEPT RECORDED BELOW.	TO CURRENT OR INJURY	10. ORGN AND MAJOR CO	OMO OF AS	GN.		10A. CAME	
OMMENDATIONS BELOW AND UNDERSTAND THE	F THE REC+	21 SOS (P/	CAP)				To.
BEING TAKEN THIS DATE.		FLYING DESG OR		BAT AIR	CREW	ING (19)	BAT (20
I HAVE BEEN OFFICIALLY NOTIFIED THIS		Flt Moch	☐ YES	1	NO		
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SIGNATURE OF FLYER		15. MONTH IN WHICH FLT ROMTS WERE LAST MET		DURATI			
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4. DATE FLIGHT CLEARANCE EXPIRES		-22. DAYS DURATION IN I	MEDICAL			22- DAYS IN (33-35)	
INDIVIDUAL PRESENTLY SUSPENDED	BY	23. TYPE OF ACTIO	N	AND M		CIRCL (3	
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DATE		REMOVAL OF EXCUSAL				4	
6. COMPETENT CERTIFYING AUTHORITY (When bo 6. of item 23 is circled, indicate author certify as physically qualified)	x 4,5, or Ity to	REMOVAL OF GROUNDING				5	
BASE NO. AIR MAJOR COMD	HQ USAF	REMOVAL OF SUSPENSION	-	****		6	
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J.	ce 728 75 UNIT INS	19 JULY 74 CVERHAUL #1. T.O: 3R1-2-9	22 Jan. 74 Removed f	THE HUI BATHERIN TWOLLED THANKS HAIDHI 5/32 ING HASTROCTICKS HA LISTROCTICKS H	75-05-72 2020 1H-5	ii .eb. 72 Imaballed	7-13-91 Nanufac	D21€	651c9-11000-1840	
	INSTALLED ON ACET 69-10933 AT 1910.3 ACET HES	ALL BEARINGS -503,504,505,50 TT: 450.3 hrs.	Removed from acft. 63-10360 acft. hrs. 1070.1 TT: 450.3 TSCO: 450.3 Reason: Vertical hinge pins on green, yellow and white sleeve and species.	THE HUT BETWEEN BOLF HOLIS NO. 7 AND NO. 11. UTILIZE A LOW STRUSS DATEROLLED DELASSION SPANN WITH A PULL FILLER DEFIN 0.003 THEN WALLOW. HAIGHT 5/32 INCH METEUM. RENOTE PARTOLARY WHITE DOT ID BUTTETOMICN. THESTRUCTIONS HAVE BEEN MARKED AN PHILS RECORD IN ACCORDANCE WITH INCREMENTAL THE TRANSPORT OF THE PROPERTY OF THE TRANSPORT OF THE PROPERTY OF	THE STATE THE SECOND FOR THE SECOND WITH A PRINCIPLE OF THE CANADA CATALOGUE OF THE TOTAL THE THE THE TOTAL THE TO	on well, 68-10560 ceft, ins.	Manufactured and accepted as new TSN 0.0 hrs.	REMARKS		SIGNIFICANT HISTORICAL DAYA
	HES UNIT TT:450.3 TSO: 00.0	952-11520 & 11519-101 & 3=11521-101 ECOMESTOPERIO NORIST IN-53-546 & 515 inc.	and s	A JULE PLEAR DEFIL 0.003 RIGH MAKIMA. BETTHE 1075 PROPOSARY WHITE DOT ID WILFIEMFION, THESE OF THESE WILLS RECORD IN ACCORDANCE WITH INCRESSIONS		619.8 150: 02.0 Tr: 00.0			WR. 7.21-130	
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AT MEGREGOR C. REPRESE, INC. 1-65-920M

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TREMARKS TREMARKS TREMARKS TREMARKS TOTAL THE: TSN: 600.0 ALT: 600.0 ALT: 600.0 TI: 743.5	
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SIKORSKY SIKORSKY REMARKS D REC'D WITH COMPONENT. NO INDICATION OF PREVIOUS OVERHAUL. NS TOTAL TIME: TSN: 600.0 TT: 600.0	71 OVINIUM #1. BEARINGS: MIL HET. Rotating S-103.
SIKORSKY 1 1. N22-382	71 WO HISTORICAL DATA CARD REC'D WITH CONDO. 1882012 OFF HIGH THE AS TOTAL THE: TS
STRORSKY 3. SERIAL MUNIER N.22-382	REAL
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7 (22)

WARRER ROBINS, ALC INVESTIGATION RESULTS ON WRECKAGE OF CH-530 HELICOPTER SN 68-10933

LUCATION OF ACCIDENT: NAKHON PHANON RTAFE, THAILAND.

DATE OF ACCIDENT 13 FWY 1971.

investigation and inspection offorts were concentrated on the ain rotor head and main rotor blades due to the scatter pattern of the weckage. That is, the main gearbox/main rotor head (MCB/MCH) assembly we found a considerable distance (approximately 2500 feet) from the orall site which indicates in flight separation of the main gearbox from the fuselage. Findings and conclusions are as follows:

1. MAIN ROTOK HEAD ASSENCENT: All major components of the mais rotor head assembly were recovered with the exception of one sleeve from the six sleeve and spindle assemblies. Five spindles remained attached to the rotor head up until ground impact at which time they were from the upper and lower plates. Five sleeves with blades attached separated from their spindles in flight. The other sleeve and spindle separated from the rotor head as an assembly, in flight, with tade attached. This blade has a heavy impact mark approximately 12 feet from the blade tip made by contacting some hard object, most in tely. another sleeve/blade departing the rotor head.

It is concluded that this blace contact is the reason the sleer; and spindle separated the rotor head together rather than the sleer; alone as did the other five sleeves.

The modes of failure of the five sleeve and spindle assemblies which allowed the sleeves/blades to depart the rotor head were as follows:

- a. Retainer nut on end of spinole sheared threads. (two Eiserolies)
- h. Retainer nut in inboard err of sleeve sheared threads.
 (two assemblies)
- c. Crack in threads in irboard end of sleeve which initiated total fracture around sleeve.

examining the mating spindle essembly. The crack in the thread id area of the sleeve started internally and propagated to the external surface of the sleeve. The length of the crack prior to failure was a proximately 2½ inches inside the sleeve and approximately 1½ inches in the outside. The age of the crack is yet undetermined, but there is no doubt it was in existence prior to the fatal flight of the airc aft. The cracked surfaces of the sleeve are undergoing a metallurgical examination to determine the reason for the cracking. This cracked sleeve is the suspected cause of the accident.

2. Man ROTOR BLADES: Pive complete name rotor blades and a three-foot section of the tip end of the minth blade were recovered. One of the five recovered blades was still in one piece. The other four very broken into two and three compacts. There were only two i meet marks, (one on each of two blades) on the five blades other that ground impact marks. These were heavy marks made by contact with a massive object such as another blade/closve flying from the rotor head during the disintegration sequence. There was no substantiatin; evidence of the blades striking the fuselage prior to their departure from the rotor head.

The blade that was attached to the suspected (cracked) sleeve pessessed no impact marks or green paint from striking the fuselage or flying debris. The tip was crushed at ground impact at which time the blade broke into two pieces. This blade/sleeve is belived to have been the first to depart the rotor head.

Examination of all the fracture surfaces on the blade segments showed the fractures to have been caused from everload with no evidence of prior eracking. Consequently, blade cracking/failure is not a suspected cause of the accident.

3. TAIL ROTOR ASSEMBLY: The tail rotor accomply with the tail goarbox attached separated from the tail pylon in flight. The four pixth change rods were broken off leaving the rod-ends intect. All four blates were broken off with remaining section lengths ranging from one to the feet still attached to the blade suffs. Blade fracture surfaces show the separations were from overload with no signs of prior cracking. All eight (four inhoard and four outboard) coming stops were sheard toff the tail rotor hub. There was evidence that all four blades had flapped a considerable distance past the inboard and outboard stops. It wever, there were no obtained marks on the vertical section of the tail pylon to indicate blade contact with the pylon. Consequently, the encreae flapping most alkely occurred after the tail rotor assembly departed from the pylon.

Malfuction of the tail rotor assembly is not a suspected cause of the accident.

- by FUSELACE: The holicopter fuselage forward of station numbe: 600 was completely consumed in the post crash fire. The tail pylor assembly APT of station number 750 had separated from the aircraft in flight and was found a short distance away (approximatory 1500 ft). I se unburned section of the fuselage (Sta. 600 to 750) showed no signs of an inflight fare. Also no evidence of an inflight pyrotechnic explosion ar Vor projectile ground fire was found during oranination of the fuselage remains.
- 5. MINGINES: Noth engines remained on the fuselage and were burned but not consumed. Examination of the compressor and power turbine section of each engine revealed evidence of high RFM rotation on the number one engine and no rotation on the number two engine. The speed selector settings on the remains of the two fuel control units showed the number one engine setting approximately 80 degrees from the full power stop and the number two engine setting approximately 30 degrees from the full power stop. The number two engine obviously experienced stall and fill me-out.

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when the power turbine ceased rotation from the tearout of the main gearbox and the engine driveshafts.

6. ATKILIAKY POWER PLAM: The APP remained on the fuselage and was burned but not consumed. Examination of the turbine wheel showed no signs of rotation. Therefore, the APP was not in operation at the time of the crush.

7. DRIVE TRAIN GEARBOKES:

A. Main Gearbox: The main gearbox was fastened to the airicano by 12 steel bolts located in pairs equidistant around the transmission. Four of the paired bolt locations are positioned to fasten the gearbox to two major cross-beam structual members of the airframe. other two paired bolts are fastened to longitudinal stringers of a lower load bearing capacity. When the gearbox departed the air: came it c arried with it a small section of each of these longitudins! stringers. However, the cross-beam airframe members were signiticantly stronger than the gearbox mounts so the mounts fractured and a prtion of the mounts and their bolts were retained with the airframe. single exception to this failure pattern was one bolt and its haif the mount which were retained on the gearbox. The bolt three is on this bolt appeared to have been stripped and then subjected to an extended period of wear within a confined area (bolt hole or bushing). However, close inspection revealed that the bolt threads were stripped in one single overload situation. Consequently, there is no reason to believe that the tolt was separated from 1:s barrel nut prior to the disirtegration of the aircraft.

The remains of the main geartox with the main rotor head attached was analyzed for any evidence of internal failure. The oil pumy was recovered an examination did not reveal any evidence of socieng, someticles or damage indicative of gearbox failure. The oil filter was examined for evidence of metal debris or contaminants. No indication of main gear internal failure was found.

Upon impact with the ground the entire main gearbox housing was shattered. Pertions of the slider guide were recovered and examined. No evidence of a soft nickel plated slider guide was found. Air craft records reflected that the Kavy team inspected the slider guide on this aircraft and recorded a Rochwell hardness of Ro-40. All evidence indicates that the sa in gearbox was properly installed and functioning normally until crash sequence began.

- B. Accessory and Nose Gearboxes: The accessory and two note gearboxes romaited with the sircraft and were consumed in the fire. Only a few of the gears were recovered.
 - C. Intermediate Gearbox: The intermediate gearbox remained intact

on the tail pylon and suffered very little damage.

D. Tail Gearbox: The tail gearbox with the tail rotar head attached is believed to have been separated from the tail pylon by the same inflight pitching forces that separated the pylon from the AFT fuselage. The tail gearbox was found relatively close to the tail pylon (Approximately 70 ft.). Separation of the tail gearbox occurred at the gearbox mounts. The gearbox suffered only minor damage.

No evidence could be found of in-flight ma terie. I ilure of the drive train gearboxes that would have caused the accident.

8. FLIGHT CONTROL SYSTEM:

- A. Primary Servos: The three primary servos were recovered extensive damage was induced when the main gearbox with servos a mached impacted the ground. Both sides (first stage and second stage) of two of the servos possessed split cylinder valls. The other servo possessed a split cylinder wall on the second stage side only, however, this servo contained evidence that its bottom mounting bolts sheared during impact. The split cylinder walls are indicative that hydraulic fluid was present in the cylinders and impact forces ginerated the cylinder walls. Malerated the primary serves is not a suspected cause to this accident.
- B. AFCS Servos: The four AFCS servos (roll-pitch-collectiv;-yaw; exhibited extensive impact and fire damage. The flight cortrol rol connections were still intact at input and output sides of each servo. The servos possessed the rodundant load path link mich was installed by TCTO IH-53-549. Malfunction of the AFCS servos is not a suspected cause to this accident.
- U. Flight Control Rods: The majority of the flight control rods were consumed in the fire. As flight control rod-em bearings were found with the bolts missing from the inner races. A flight cor rol row disconnect is not a suspected cause of this eccident.
- . MINAULIC SISTEM: Va rious hydraulic system parts were rec wered.

 Inese parts exhibited extensive impa of and post impact fire Lar we.

 Examination of the remains of these parts revealed the following findings:
- A. The second stage return filter was clean. No evidence (contaminants was found.
- 3. The second stage pump remains possessed a drive shaft with solines that were in good condition. One failure mode of the hyleraulic pumps is worn or stripped splines. No evidence was found indicating that the second stage pump failed prior to the beging of the crash sequence.
- C. The first stage pump rotated freely. A small amount of rmp-' , pod bydraulic fulid from the pressure side of the pump was examined for evidence of metal debris. No evidence was found to indicate that the pump had failed in any manner.

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Four of the six main blade dumpers were recovered. Malfunctic of the dampers was not muspected and nothing significant to the cause of the accident was found from examination of the recovered dampers.

All of the stationary swashplate and the major portion of the otating swashplate remained intact and assembled to the rotor head. The outer periphery of the rotating swashplate including all the pitch change rod attachment points were broken off during ground impact and were found with the MGS/MM assembly.

Approximately one-third of the swashplate spherical ball was recovered. The ball had the old generation chrome plating and no excessive scoring was found on the working surfaces of the recovered section of the ball. The hardness of the swashplate guide (slider) had been previously measured by the North Island wavy Team to be Re-40 (minimum hardness is Re-10,. bateriel failure of the swashplate assembly including the ball and slider is not a suspected cause of the accident.

The upper plate of the main rotor head assembly sustained relatively minor damage. One arm was slightly twisted. No other distortion was noted. Some chipping occurred on the lower edges of the vertical bores when the spindled were torn loose from the rotor head at ground impact. The lower plate of the main rotor head was severely damaged with only portions of two of the six arms remaining attached to the rotor hub assembly. The breakup of the lower plate occurred at ground in pact when the five spindle assemblies were torn away from the upper inclower plates. The pieces of the lower plate were found with the hGB, hMd. Materiel failure of the upper and lower plates of the rotor head is not a suspected cause of the accident.

The recovery of the missing sleeve/blade assembly is not noces, my for the completion of the investigation. Examination of the spind, a from which the missing sleeve separated revealed the failure mode to be stripped threads both inside the sleeve and on the retainer nut that secures the sleeve to the spindle. This was the mode of blade separation of one other blade and is an expected result of the extress out-of-balance condition induced after loss of one blade while the rotor is rotating.

Unly one of the six horizonta; ninge pins was sheared off duri; the crash sequence. The other five were in relatively good condition and showed no evidence of sudden stoppage. The one sheared hinge; in was broken off adjacent to the damper bearing journal. The break is in the outboard direction and was caused by the blade stiking some heavy object such as another sleeve/blade depurting the rotor head. The sheared-off hinge pin is a component part of the previously discussed sleeve and spindle assembly that departed the rotor head as an issembly. This hinge pin facture is not considered a contributing factor in the cause of the accident.

The six droop stops and anti-flapping assemblies were well mutitated during disintegration of the rotor head. The droop stop mounts on the vertical hinge assemblies showed no evidence of extreme blade a coopage as occurs when rotor blades strike the fuselage.

D. The first staye return filter was found with a popped : try filter indicator. Examination of filter element did not reveal any contamination. Impact forces are considered to be the cause for the popped indicator.

E. No parts of the utility system were recovered which revialed any findings.

No evidence was found indicating that a failed hydraulic system saused or contributed to this accident.

10. SUMMARY: The discovered crack in one of the sleeves of the fix sleeve and spindle assemblies is come to be the cause of the accident. However, a definite determination cannot be made until the metallurgical analysis of the fracture surfaces is completed. Estionale for this proliminary determination are as follows:

- A. Location of main woorbox/main rotor head relative to cresh site (approximately 2500 feet separation distance).
- B. Main rotor blade seperation had to have occurred to induse the asymmetrical loading condition of sufficient magnitude to abruptly rip of the main geerbox.
- C. Blade saparation had to have initiated inboard from blad; cuff since all plade fractures outboard from cuff were from over oad with no evidence of prior cracking.
- D. Crack in the suspected sleeve existed prior to fatal flight and was cause for separation of suspected sleeve/blade from rotal head.
- E. Modes of blade separation for other five blades have been observed in past on previous H-53 accidents. These modes have always been the results following causes such as blade separation or blade-fuselage strikes.
- F. Blade attached to suspected sleeve possessed no impact marks other than ground impact which is indicative this blade was firs to leave rotor mead.

No other evidence was found of in-flight material failure in the wreckeye that could be classified as being the cause of the accident.

MARVIN CRIFFIN System Manager Mepresentative
Warner Robins A.C/MMATH

GERALD RUNELLE Systems Engineer Warner Robins ALC/MMEAN

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DEPARTMENT OF THE AIR FORCE HEADQUARTERS 55TH SPECIAL OPERATIONS WING (PACAF) APO SAN FRANCISCO 96310

ATTN OF WRALC/MMETM (N. Waninger)

20 May 1975

Bolt and Barrel Nut, Main Gearbox Support Mount.

President of Accident Investigation Board CH-53C, 68-10933

A bolt removed from main gearbox support mount appeared to be worn in threaded area. The barrel nut that was mated to the bolt was removed and sectioned for evaluation. Barrel nut internal threads showed heavy metal slivers located between internal threads of barrel nut. This is positive evidence that bolt and barrel nut stripped themselves apart by overload. There is no reason to believe bolt was separated from barrel nut prior to crash.

norman J. Waninger

NORMAN J. WANTINGER . WRALC/MMETM Materials Engineer

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DEPARTMENT OF THE AIR FORCE HEADQUARTERS SETH SPECIAL OPERATIONS WING (PACAF) APO SAN FRANCISCO 96310

Norman Waninger, Materials Engineer WRALC/MWETM

Status Report on CH-53C, SN 68-10933, Crash Investigation

General Clark

1. Observation of a sleeve from a sleeve and spindle assembly from above subject aircraft reveals the following:

a. There is a prior crack completely through wall of sleeve. This crack was about 22 inches on inside portion of sleeve and about 12 inches on outside diameter of sleeve. Crack originated from inside diameter of sleeve in the root of internal threads on sleeve which corresponds with leading edge of blade. Fatigue striations are evident at outer edges of crack. Microscopically there appears to be a failure only by fatigue. Electron microscope and other tests should be performed at WRALC to definitely define cause of failure at origin of crack.

b. A crack of this type could be catastrophic by causing entire blade to depart from aircraft.

Roman J. Wani NORMAN J. WANTINGER

Materials Engineer

56 CSQ/JA 3 June 1975

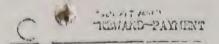
SUBJECT: Claims Aspects of CH-53C Helicapter, 68-10933, Accident of 13 May 1975

TO: Collateral Investigation Officer

- 1. On 14 and 15 May 1975 I was present at the crash site.
- 2. Pursuant to AFR 67-5 I have made cash payments in the total amount of 5,363 Baht (\$263.54) on 5 vouchers as "Reward" payments for the recovery of aircraft and parts.
- 3. Pursuant to MACTHAI Regulation 27-1 I made a solatium payment in the amount of 450 Baht (\$22.02) to the landowner of the crash site.
- 4. The "Reward" payments were principally made for recovery of rotor blades.
- 5. Thus the total amount expended by my office in conjunction with this accident was 5,813 Baht (\$285.56). I do not expect any further claims to arise from local Thai nationals.

JAVES S. HOCKER, Lt Colonel, USAF Staff Judge Advocate

K (11



4,	, have received payment of reward
this dato _	19 May 1975 In the amount of 450 Baht for
nolatium pay	ment resulting from a USAF helicopter crashed on 18 May 75
The reward p	ayment was presented to me by Lt Col James S. Wooder. HSAF
	SACRO/IA
	Signed:
	Dignett.
	Address: 11 BROWN DAY DON KAN
	การจายเงินรางวัล
ชาพเจ้า	นายพรบมา โพธิคาภา ได้รับเงินรางวัลในวันนี้ ปริพฤษภาคบ 2518
จำนวนเงินที่ไก้	รับ 450 บาท เป็นการคอมแหนในการที่ข้าพเจ้า <u>ได้รับเป็นค่า</u>
หำขวัญจากการ	ที่เครื่องมินเฮลิกอปเตอร์ตกในบริเวชที่ดินซองข้าพเจ้าเมื่อวันที่ 🛱 พ.ก. 18
เงินรางวัลทั้งกร	ลาวนี้ได้ขายให้แก่ขาพเจ้าไทย <u>น.ท.เจมส์ เลส.อ็ลคเลอร์ หน.ทหารพระช</u> รรม
	่นูญ ทอ.อม. นครพนม
	ลงชื่อ <u>นายพรพมา</u> ผูรับเงิน
	พื้อยู่ 111 หมู่ 12 บ้านกอนแคน ค. ขี้นั้น
	อ.เมือง จ.สกลนคร
,	CERTIFICATE OF WITHESSING OFFICER
- Alamais	B. DAH, els, SGH, USAF SbC56/SF, certify that I
(name, rai	nk, SSAN, and organization) ed payment of reward this date 19 MAY 1975
have witness	ed payment of revierd this date
in the amoun	t of p150.00 Beht to MR. PRGMMA POKAMPA, (name and address of payee)
A.THAI NA	TIONAL the solution was presented to the
Dayes by LT	14 15 S HOCKER, 205-30-3580 56 CSL/JAT
	(name, rank, SSAN, and organization)
	1 may 6 1 much

K (2)

(Translation)

Residence of Village Chief Group 12, Tambol Kamin,
Muang District, Sakolnakorn Province.

18 May 1975

To: Chief of Tambol (Commune) Sawang, Pannanikom District, Sakolnakorn Prov.

Subject to a USAF helicopter accidentally crashed at Mr. Promma Pokampa's land, a villager of Ban Donkan, Group 12, Tambol Kamin, Muang District, Sakolnakorn Province, and caused damages to the said area, and because this plot of land already registered Title Deed;

I do hereby certify that Mr. Promma Pokampa is a villager who resides in the area under my administration.

/s/ Mr. Fromma Pokampa I and Owner
/s/ Mr. Karl Kruttamtam Village Chief, Group 12
/s/ Mr. Soong Kaewdee Village Chief, Group 2

At Ben Donkov, Tambol Sawang, Pannanikom District, Sakolnskorn Province.

18 May 1975

Re: A USAF helicopter crashed at Mr. Promma's land

To: Chief of Tambol (Kaynan) Sawang, Pannanikom District, Sakolnakorn Prov.

A USAF helicopter was accidentally crashed at my land locates at the said above address (Group 2 Ban Donkov, Tambol Sawang, Tambol Kamin) and caused damage to the said land and I am going to ask for compensation from the USAF authority.

I submit this letter for your approval.

/s/ Mr. Promma Pokampa /s/ Mr. Soong Kaewdee Land Owner Village Chief, Ban Donkoy

Approved:

/s/ Signature illegible

.Chief of Tambol (Commune)

Translated by:

MR. KLAR MEKSAWAN

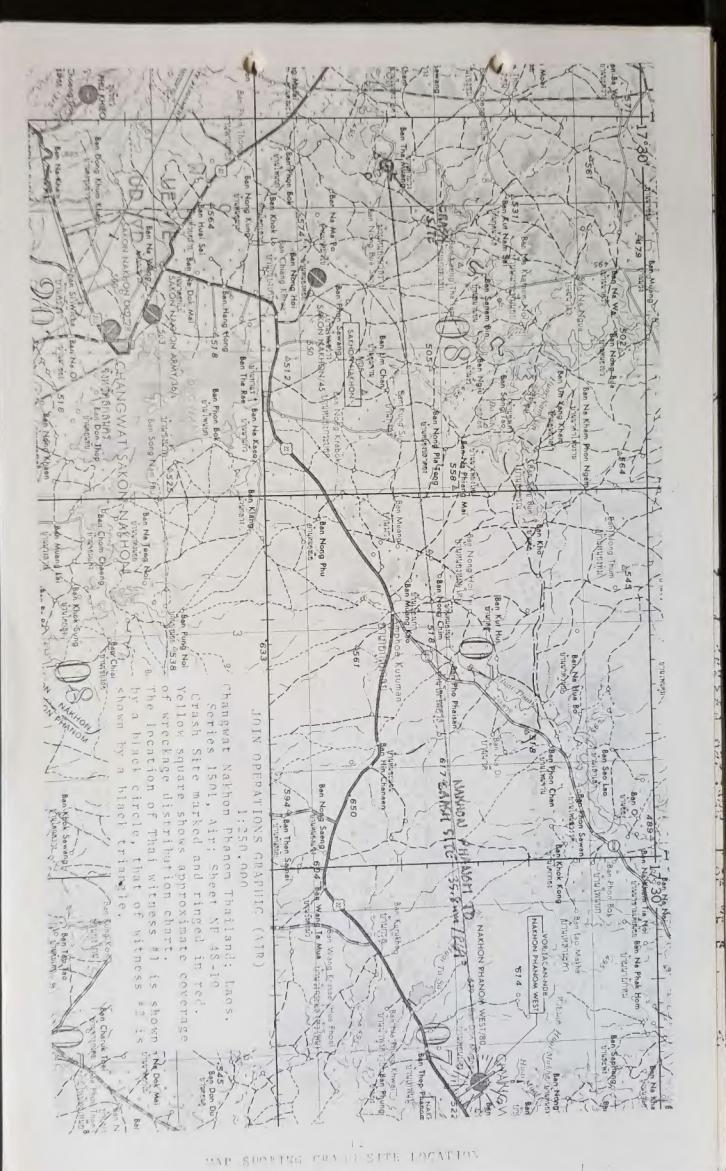
Office of the Staff Judge Advocate

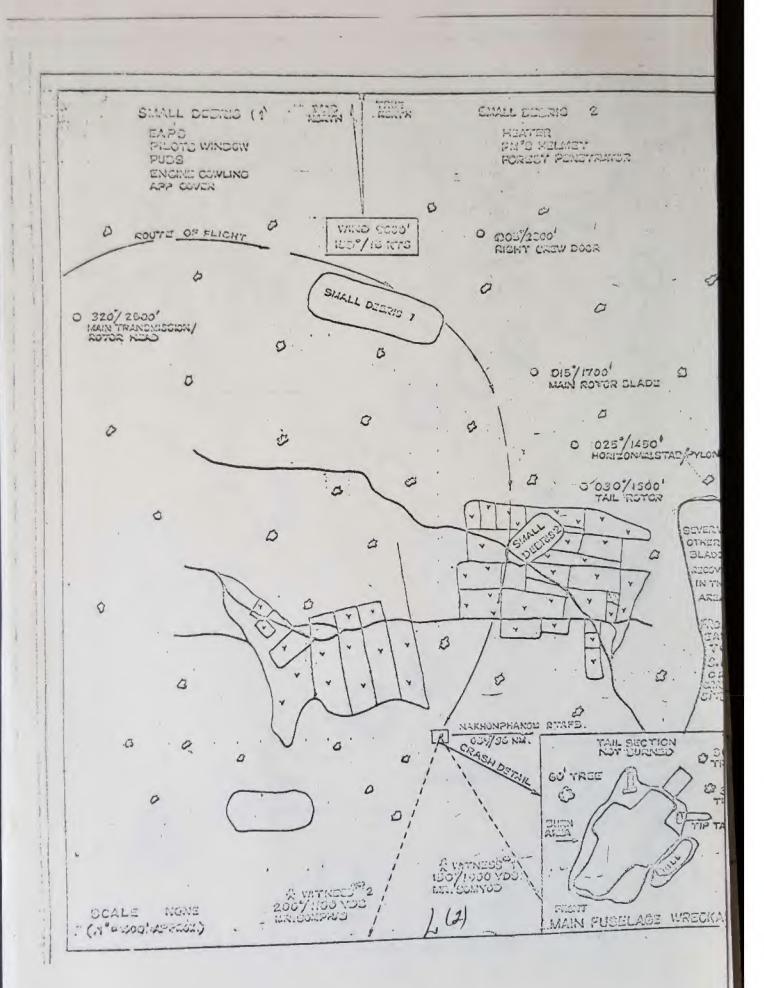
APO San Francisco 96310

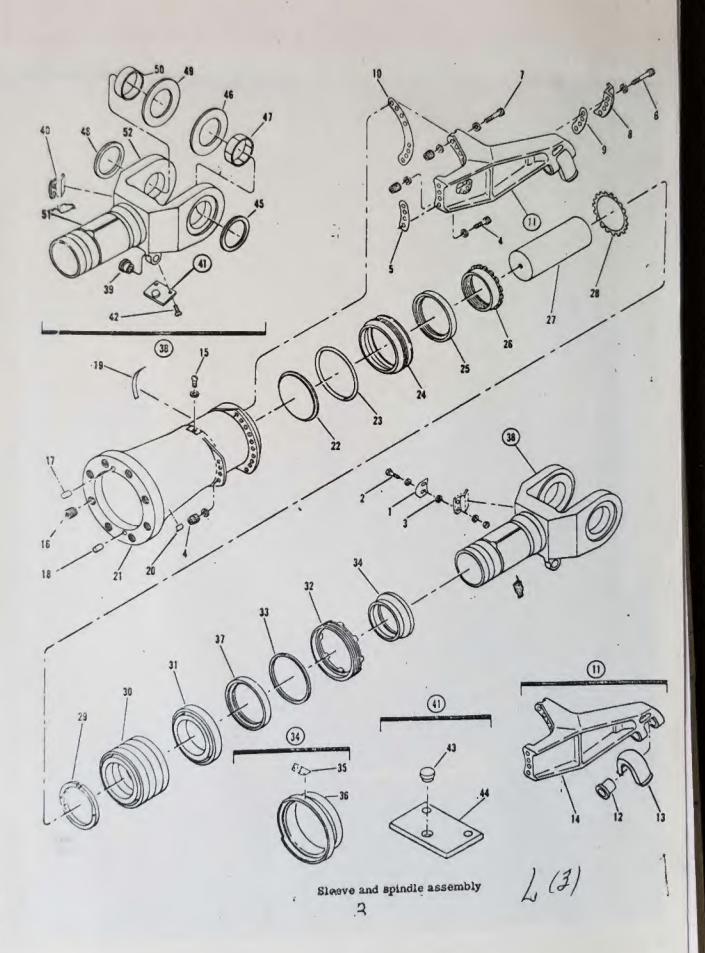
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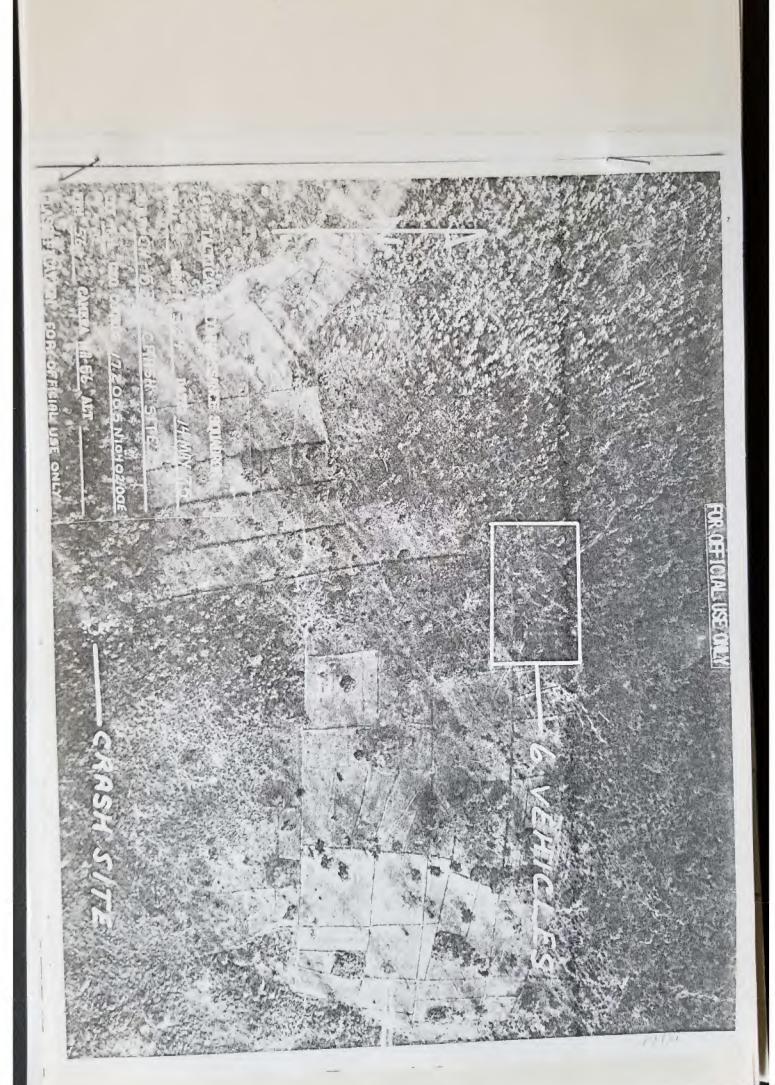
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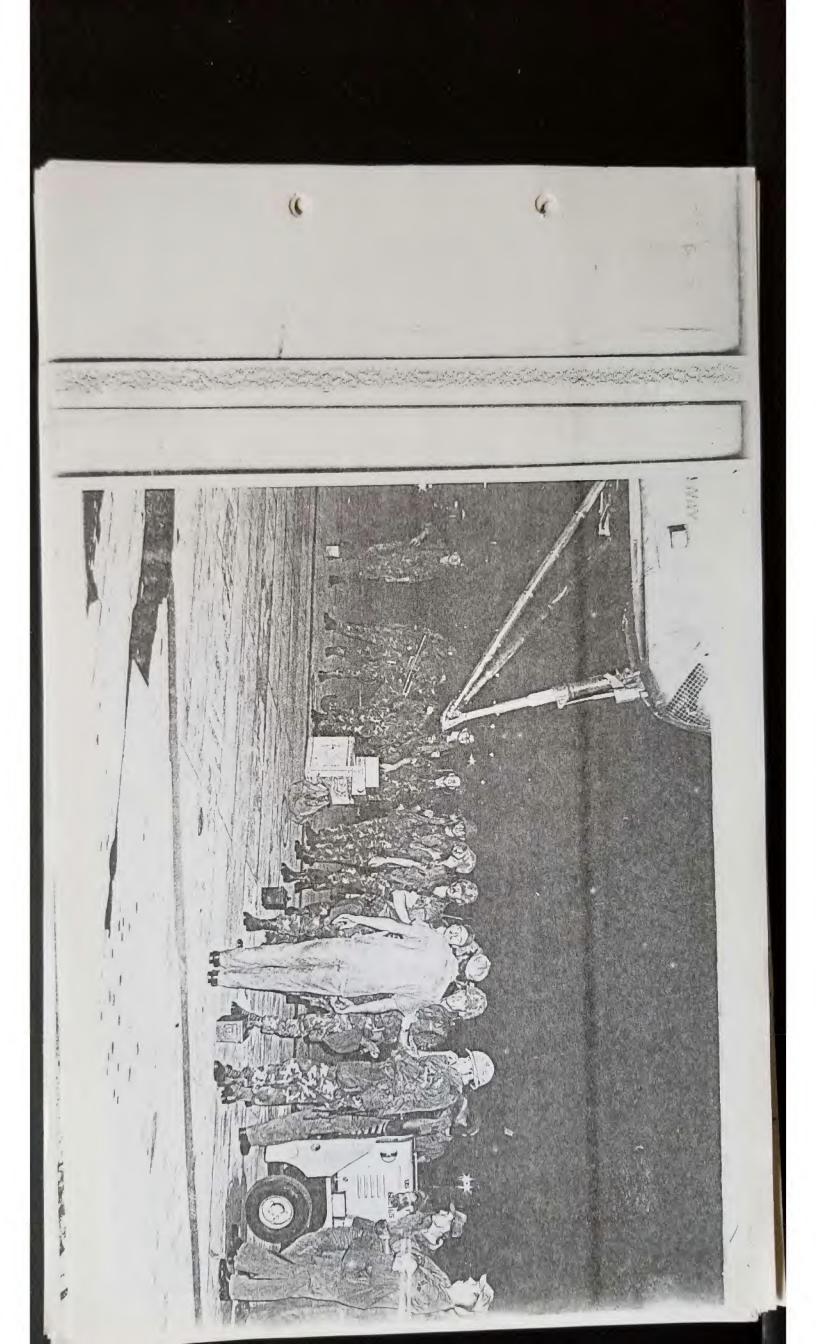




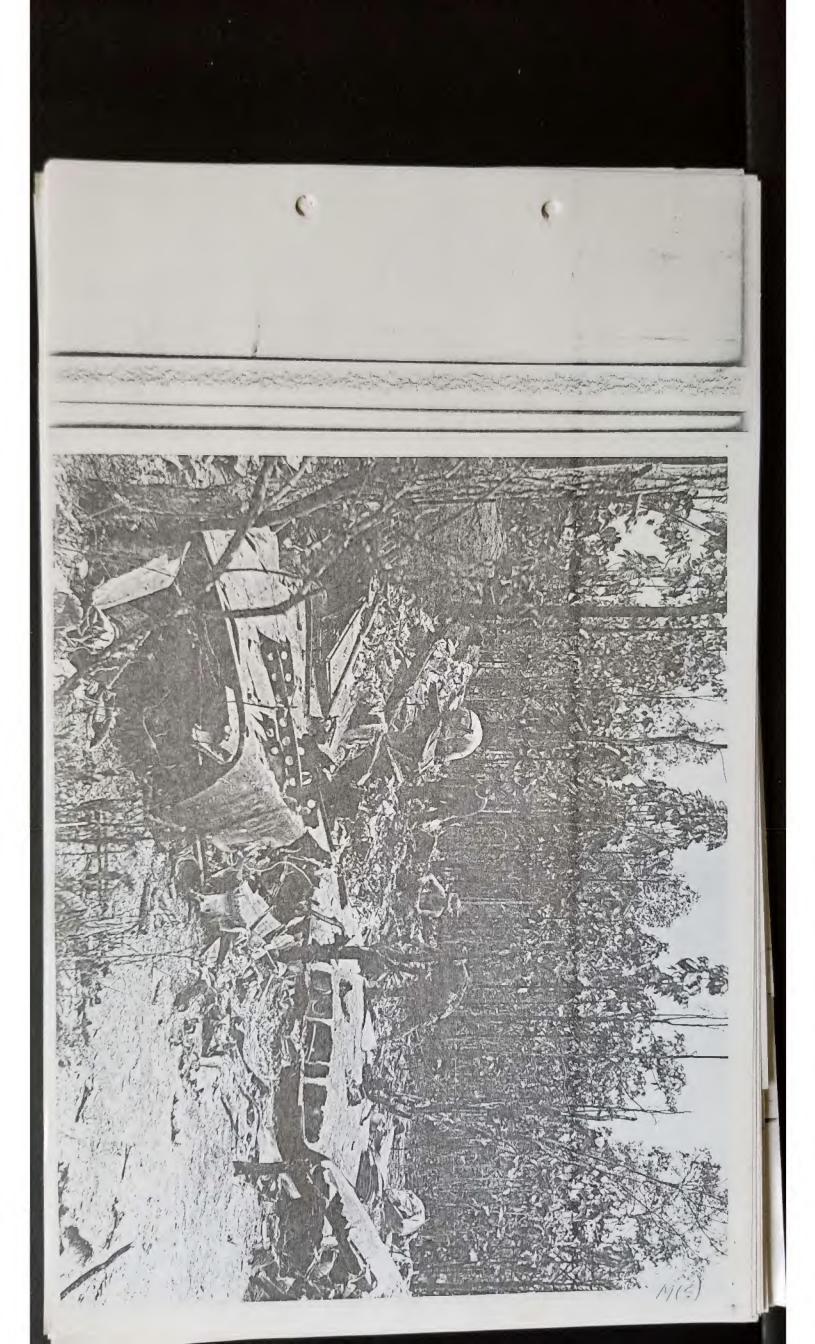


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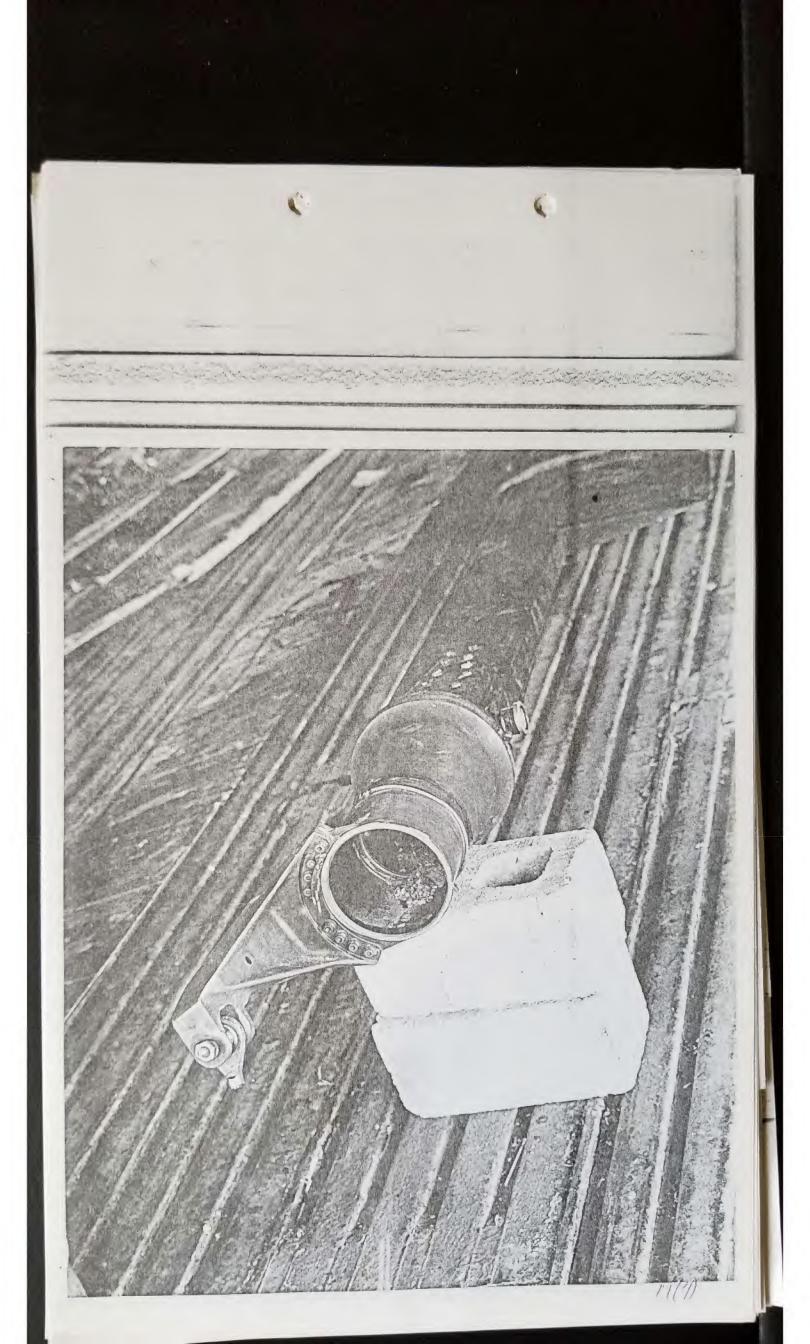
















ARTMENT OF THE AIR FORCE SPACE RESCUE & RECOVERY SQUADRON (MAC) APO SAN FRANCISCO 96310

ATTNOR Major John F. Guilmartin, Jr., 40ARRS/DO

11 Sep 75

Subjects Addendum to Collateral Investigation of Crash of CH-53C 68-10933

TO: 13AF/JA

- 1. Reference the attached Warner Robins Air Logistics Center/MMATH Teardown Deficiency Report dated 12 Aug 75. This constitutes the final addendum to the Collateral Investigation Board Report.
- Reference Paragraph 3 of attached Teardown Deficiency Report: The Collateral Investigating Officer finds that the loss of CH-53C 68-10933 was caused by failure to install a liner in the referenced blade sleeve during overhaul at the NAVAIREWORKFAC, North Island, San Diego.

 Installation of the protective liner was required by T.O. 3R1-2-9-3NI 31150-71.

JOHN F. GUILMARTIN, JR., Major, USAF Investigating Officer

DEPARTMENT OF THE AIR FORCE HEADQUARTERS WARNER ROBINS AIR LOGISTICS CENTER (AFLC) ROBINS AIR FORCE BASI., GEORGIA 31098

MMATH (Mr Griffin, 2878)

1 2 AUG 1975

Teardown Deficiency Report on Sleeve and Spindle Assembly P/N 65102-11051-187, NSN 1615-00-139-3302, WUC 15128, 56SOW CAT I Report 75-31, WR/ALC MIP WRNAA 75-0152 from CH-53C Helicopter S/N 68-10933

656 CSGP/SE

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CINGPACAF/SE

AFISC/SE

AFLC/MMXQ

- 1. A copy of subject report is forwarded herewith.
- 2. Analysis of the report reveals the following.
- a. Sleeve P/N 65102-11051-187 failed in high cycle fatigue originating in a thread root (2nd thread from bottom) in the leading · edge (adjacent to pitch horn attach flange). The sleeve did not contain a protective liner as required by T.O. 3R1-2-9-3/NI 31150-71.
 - b. Metallographic analysis indicated that the sleeve contained no metallurgical abnormalities and was in the solution treated plus annealed condition as required by blueprint.
 - 3. The liner was inadvertantly left out by NAVAIREWORKFAC, North Island, San Diego, California during overhaul of main rotor head during July 1974. The omission of the liner caused .045 inch clearance between the stacked bearings on the spindle and the ID of the sleeve. This clearance induced the cyclic fatigue crack which resulted in total failure.
 - 4. As a result of the above findings, NAVAIREWORKFAC changed the overhaul procedures to insure the installation of a liner. Specific changes included revision of two quality control verification requirements from artisan certification to quality assurance mandatory verification prior to final assembly. TCTO 1H-53-619 was issued on 25 May 75 requiring the inspection of all installed and spare sleeve and spindle assemblies for proper wall thickness and presence of a liner if required. NAVAIREWORKFAC dispatched qualified teams with equipment to conduct this inspection. This inspection was completed on all Air Force helicopters on 3 Jun 75.
 - 5. The above actions are considered adequate to preclude this type failure and this is closing action on WR/ALC MIP WRNAA 75-0152.

J. RUDOLPH CANNON

Cargo, Helicopter & Utility Acft SM Dig DIRECTORATE OF MATERIEL MANAGEMENT

Rudalph Carmon

1 Atch TDR w/atch

AFLC - Lifeline of the Aerospace Team

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addendum 2(1)

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MAYAIREMONTAGE 4763 34100/JHD/S AB Page 1 of 4

MATERIALS ENGINEERING DIVISION AERONAUTICAL ENGINEERING DEPARTMENT PHORE (7(4) 42-4711 AUTOYON 951-2711

Code 32211 (M. L. Brown)/M1P75-0152	DMM Robins AFB 2112308 May 1975
TEAN NA PROPRIET WATER AND REAL PROPRIET TO STATE OF THE PERSON OF THE P	MATERIAL RECEIPT DATE
Sleeve, sleeve & spindle assy., Rotary Wing Head P/N 65102-11051-187	23 May 1975
PENANTO CONTRACTOR NEW MARIE AND THE TELESCOPE OF THE TEL	REFERENCE DOCUMENTING, PAGE TAR TIG ETC.)
CH-53C, S/N FM-161, Ser.No. 68-10933(U.S.Air Force)	NAO395B-115 NI/31149-71; T.O. 3R1-2-9-3/NI 31150-71

1. Background.

- a. The aircraft was involved in a crash in the Aslatic area.
- b. Sleeve spindle assembly time since new 1008.7 hours
- c. Sleeve spindle assembly time since overhaul 90 hours
- d. Prior history (similar failure) only one Feb ruary 1972. Contractor inadvertently introduced assembly into system without liner; the assembly was replaced without any accident.
- e. The failed sleeve, P/N 65102-11051-187 was submitted to the Materials Engineering Laboratory for failure analysis.
 - f. Part missing was: liner, P/N 64102-11082-102.
- 2. Tests. The following tests and examinations were conducted:
 - a. visual;
 - b. macroscopic;
 - c. microscopic;
 - i. spectrographic chemical analysis;
 - e. "wet" chemical analysis;
 - f. electron microscopic fractography, (TEM);
 - g. S.E.M. x-ray energy dispersion

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(continued on page 2)

The formation with the control of th

McCallurgical Branch

37509

17 July 1975 2 (5

ABOPATORY PEPURI HIND HA VAIREWORKTAC 4730/1 (REV. 8.74)

OLLOSUR

34100/JMD & AB 17 July 1975 Page 2 of 4 NAVAIREPORT FAC NORTS Laboratory Report No. 37509 3. · Results. Visual and macroscopic communation of the spindle revealed that fracture had occurred in the threaded region of the upper end (smaller diameter) of the part. Enclosure (t) deplits the overall assembly, with the failed region at the tep. b. Enclosure (2) reveals a closer view of the fallure area with the falled buttress thread portion expessed to view. c. Enclosure (3) is a view of the internal wall of the sleeve, photographed at an angle, from the tracture surface down. Circumferential scoring is visible approximately 2/3 down to the internal support ring; mutilation and deformation are also visible along the support ring. Enclosure (4) presents another view of both the damaged internal support ring as well as a top view of the entire fracture surface. (The origin area of the failure is on the bolt flange side.) e. The two separate fracture segments containing the buttress threads are disclosed in enclosure (5) indicating the general topography of the fracture f. Enclosure (6) is a close-up view of one portion of the failed thread indicating the location of the fracture with respect to thread position, as well as a portion of the fracture face. Enclosures (7) and (8) are enlarged views of the separated fractured thread ring shown re-assembled in enclosure (5). In enclosure (7) note the flat progression of the tracture, parallel to the thread direction. In enclosure (8) we find the mating half of the thread ring indicating a different type of fracture face and propagation mode. h. Enclosures(9) and (10) are top views of the fracture face (of enclosure (77), at slightly higher magnification. The appearance of the surface is indicative of fatigue type failure, with the origin occurring in the I.D. region at the top, and propagating both clockwise and counterclockwise along the thread profile. i. inclosure (II) is a higher magnification view of the fracture face. The fatigue originated at the bottom edge (in the second thread root)(in the central portion of the photograph) and expanded both upward and laterally in both FOR OFFICIAL USE ONLY directions. AFR IR-JO

34100/JMD & AB 17 July 1975 Page 3 of 4 NAVALUFWORKFAC NORIS Laboratory Report No. 37509 Enclosure (12) in an electron microscope fractograph at 12,000 % magnification presenting two typical views of the fatigue mode of failure in the thread root area. Fatigue striations (clam-shell markings) are prominently displayed in both pictures. k. Wet chemical inclusis, spectrographic and scanning electron microscope (SEM) x-ray energy dispersion analyses verified the sleeve alloy as Ti 6Al-4V. 1. Metallographic evaluation indicated a normal microstructure at 500% for forged, solution treated and annealed Ti 6Al-4V alloy. (Light) equiaxed alpha grains in transformed beta matrix (dark) containing coarse, acicular alpha (see enclosure (13)). m. Fractographic analysis: Indicated high cycle type fatigue crack propagation as the primary failure mode for the sleeve. The general fatigue striation configuration is shown by enclosure (12). In order to estimate the number of fatigue striations certain assumptions had to be made; (a) that propagation was directional and (b) that the striation propagation was continuous. Note on this fracture the fatigue strictions were in localized areas both discontinuous and multi-directional. Based on the assumptions made, it was estimated that there were approximately 70,000 striations from the thread root to the O.D. at the mid point of the fatigue type fracture. From the center line of the brittle portion of the fracture circumferentially to the rapid duetile phase of failure there were an estimated 550,000 striations. The fracture also exhibited cleavage character istics and ductile dimples were noted on the surface out of the brittle zone. Conclusions. a. The sleeve failed in high cycle fatigue originating in a thread root (2nd thread from bottom) in the leading edge (adjacent to pitch born attach flange). The submitted tailed sleeve did not contain a protective inner liner as required per NA 03-958-115/N1 31149-71 and T.O. 3R1-2-9-3/NI 31150-71 H-53 helicopter, 65102-11051 series sleeve repair procedure; instructions concerning. b. Metallographic analysis indicated that the structure contained no metallo cal abnormalities and was in the solution treated plus annealed condition as required by blueprint. c. Fractographic analysis and striation counts with the electron microscope indicated that the fatigue striations from the thread root on the I.D. to the sleeve 0.b. were approximately 70,000. The propagation of individual striution FOR OFFICIAL USE OF AFR 12-30 1(3) addendunt William The Milliam The Control of t

34100/JMD & AB 17 July 197c Page 4 of 4

NAVAIRENORKFAC NORIS Laboratory Report No. 37509

circumterentially to the ductile phase of failure was estimated at 550,000 in number.

d. Chemical, spectrographic, and SEM malyses all confirmed the alloy analysis as titanium alloy 6 Al-4V.

ENCLOSURES:

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- (1) NAVAIREWORKFAC NORTS Photo No. LAA-59384
- (2) NAVAIREWORKEAC NORTH Thoto No. LAA-59386
- (3) NAVAIRIMORKEAC NORTS Photo No. LAA-59385
- (4) NAVAIRENORKEAC NORTH Photo No. LAA-59382(5) NAVAIREMORKEAC NORTH Photo No. LAA-59379
- (E) NAVAIRIWOPKEAU NORIS Phet. No. LAA-59383
- (7) NAVAIREWORKEAU NORIS Photo No. LAA-59369
 (8) NAVAIREWORKEAU NORIS Photo No. LAA-59378
- (9) NAVAIREWORKEAC NORIS Photo No. LAA-59367

- (10) NAVAIREMORKEAC NORIS Photo No. LAA-59370 (11) NAVAIREMORKEAC NORIS Photo No. LAA-59368 (12) NAVAIREMORKEAC NORIS Photo No. LAA-L-3885 (12,00 X fractograph)
- (13) NAVAIRLWORKFAC NORTS Photo No. LAA-L-3886 (500 X metallograph)

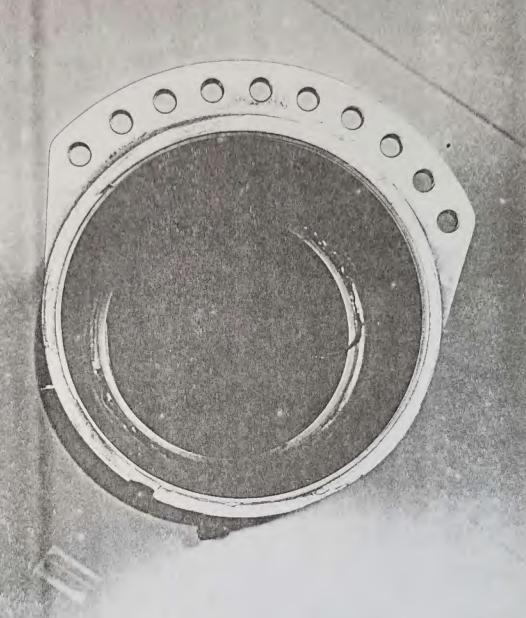
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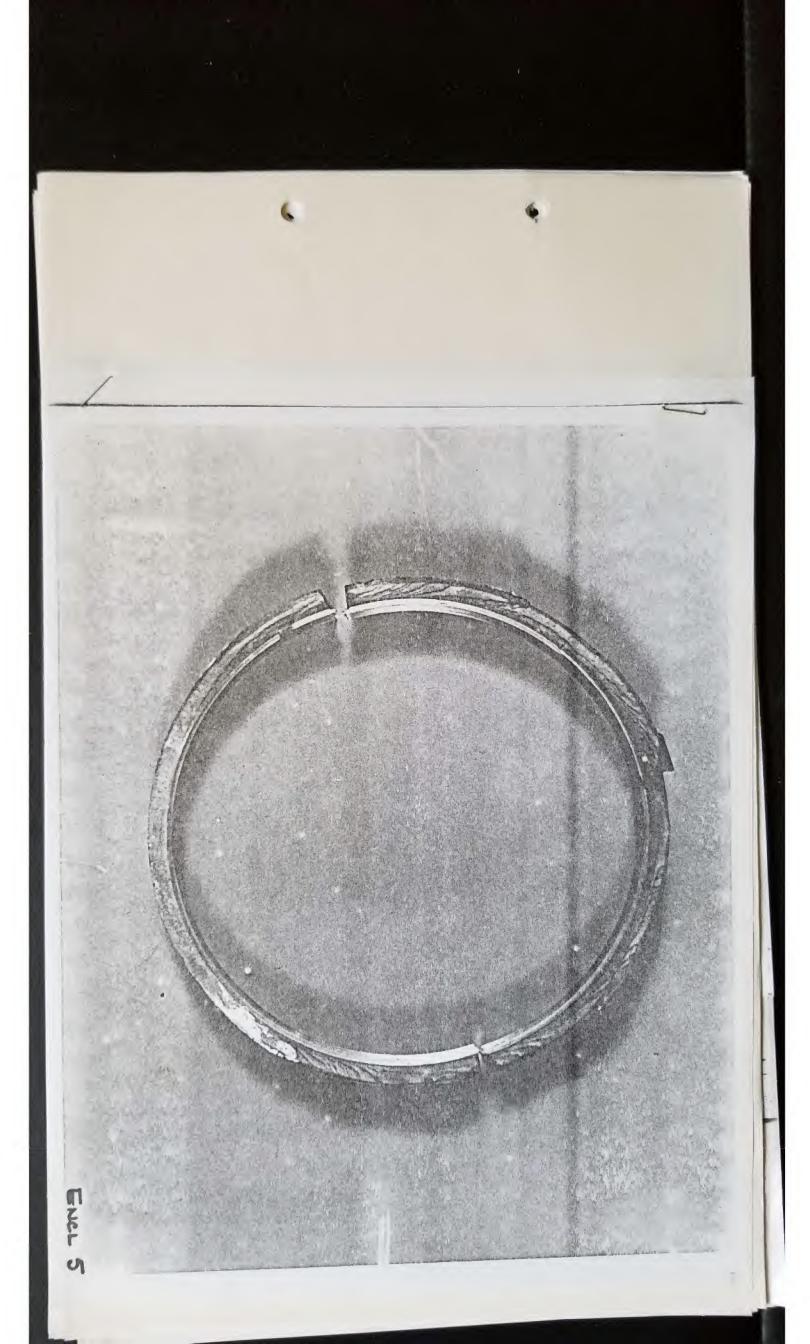


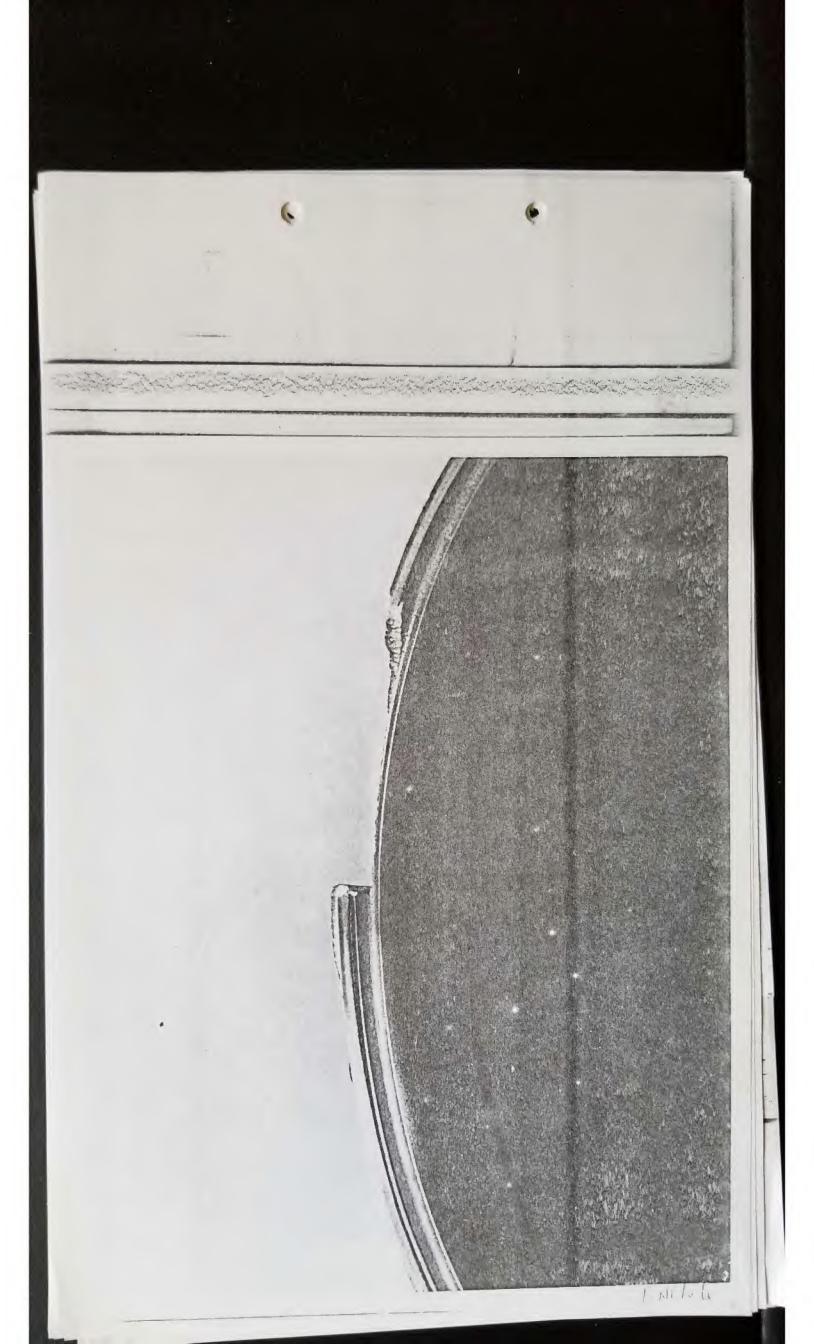


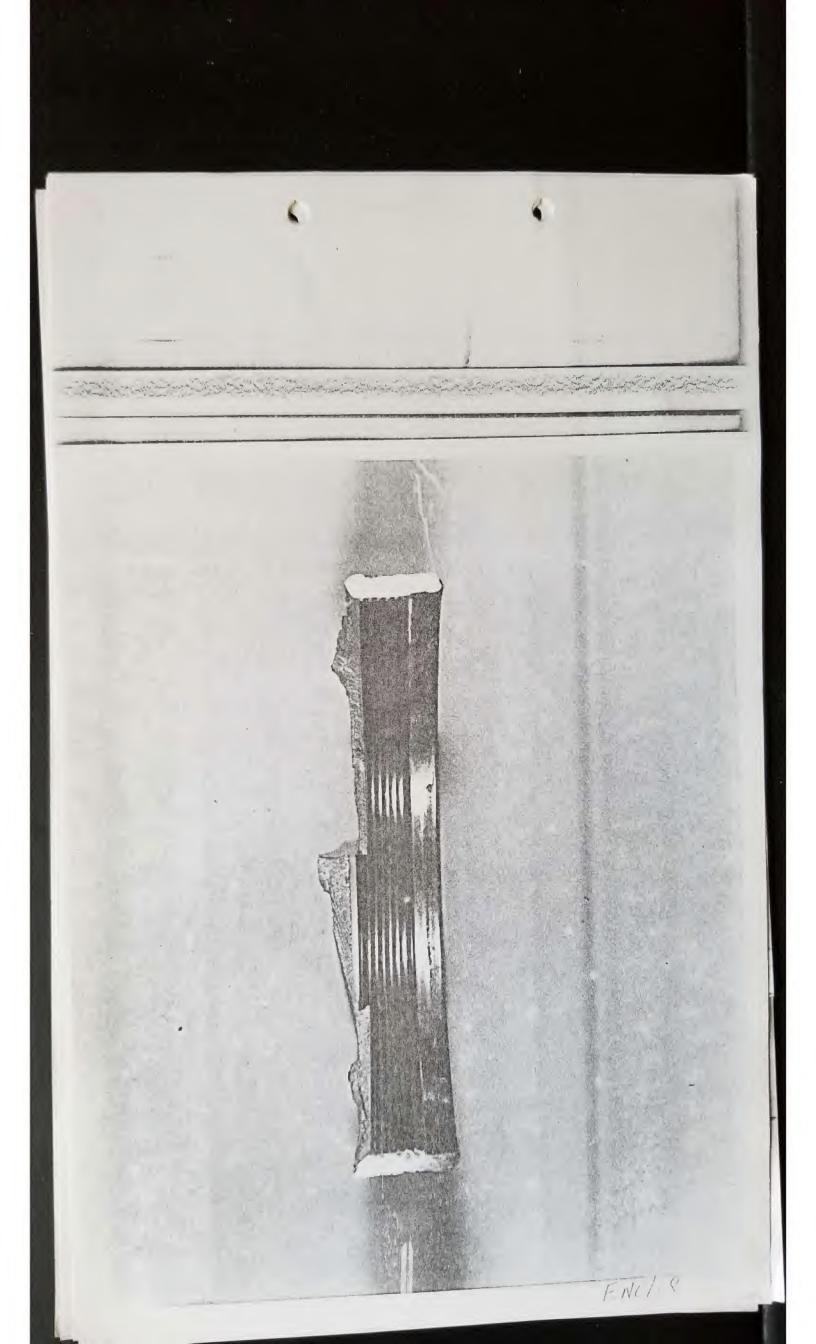


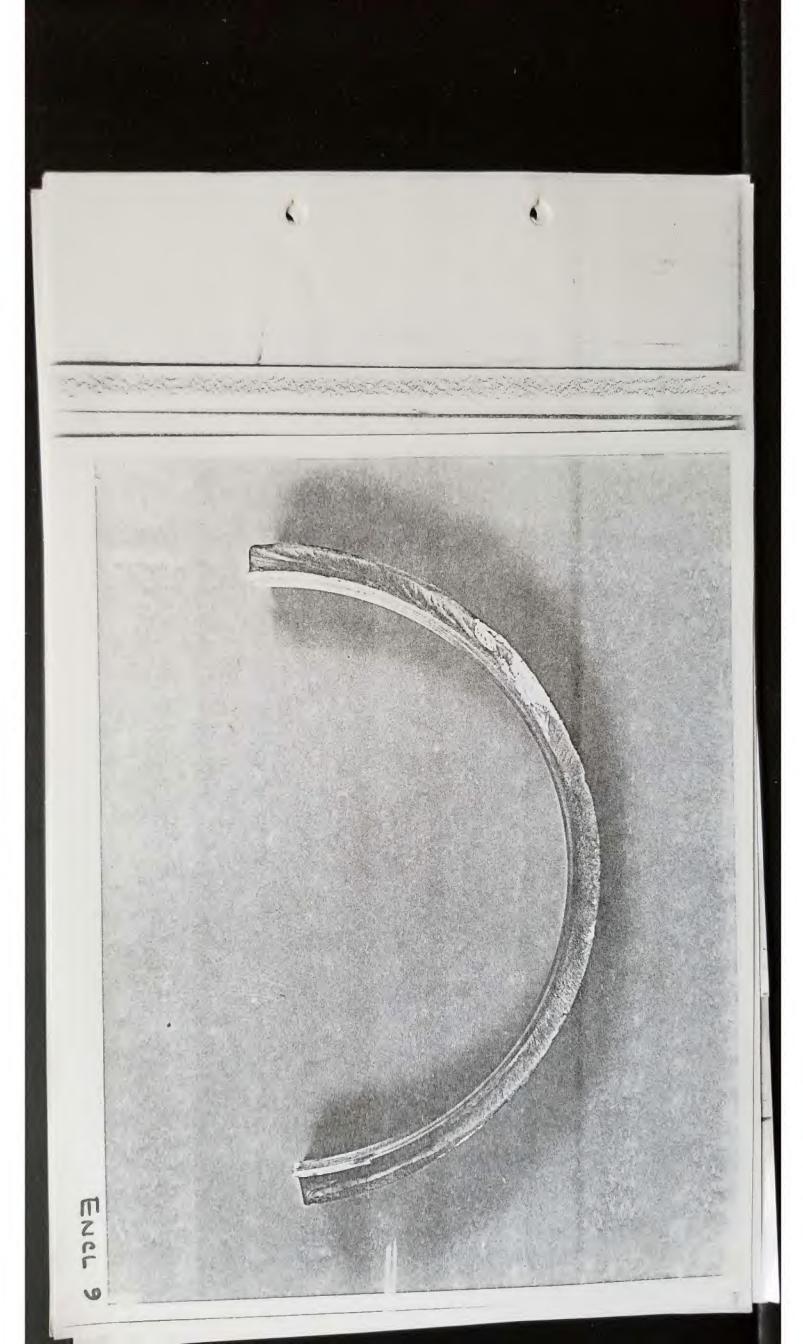


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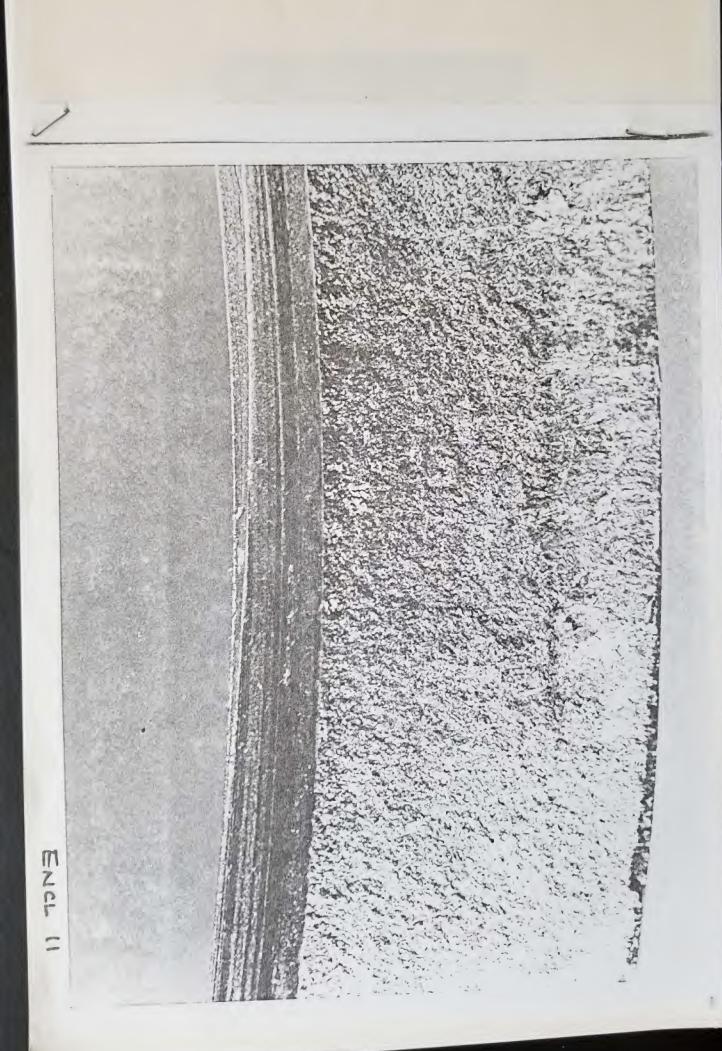


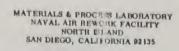










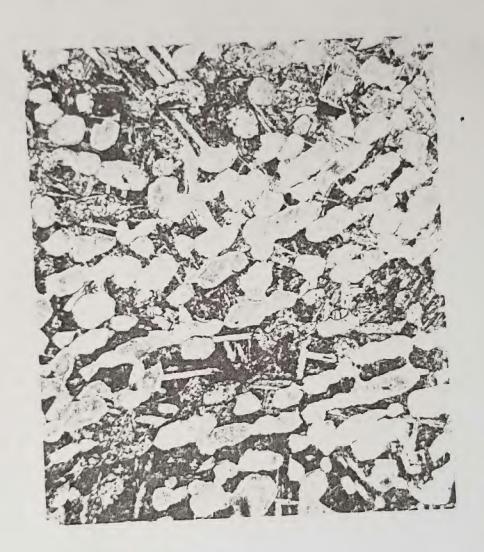






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MATERIALS & PROCESS LABORATORY NAVAL AIR REWORK FACILITY NORTH ISLAND SAN DIEGO, CALIFORNIA 92135



MAG: 500 X

ENCL 13

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HURIZONTAL STABILIZED (REMOVED FROM TAIL SECTION) 1 X 0 X 10 FT
FUSELAGE 3 X 10 Y 19 FT
TOUR 5 X 9 X 9 X FT
TOUR 5 X 9 X 9 X FT
THE ENGINE 2 1/2 X 2 1/2 X 8 FT
THE ENGINE 2 1/2 X 2 1/2 PR 5 DT
THE ENGINE 2 1/2 X 2 1/2 FT
TAIL HOTOR 3 X 3 X 3 FT TAIL HOTOR 3 X 3 X 3 FT TTREE COMEXER & 1/2 Y 8 1/2 X 0 FT GABUT " X 1 PT SEVEN PUSELAGE SECTIONS 4 X 11 X 1 FT " 1/2 X 5 X 3 FT 13 1/2 x 5 X 3 FT PAGE 3 HUHJRFAMAMA UNCLAS & F T O IN X Y A W YT THO TALL PATE ROTOR OLATER FOR TOPS WERE BHIRDED TO WARNER nidentu BUTTER ALC.

DEPARTMENT OF THE AIR FORCE HEADQUARTERS THIRTEENTH AIR FORCE (PACAF) APO SAN FRANCISCO 96274

9 SEP 19/5

REPLY TO SE

SUBJECT: CH-53 Aircraft Wreckage Disposition

TO: 13 AF/JA

The following components were shipped to the CONUS at the direction of Warner Robins ALC, Robins AFB, Georgia.

CH-53 Aircraft, SN 70-1628

CH-53 Aircraft, SN /0-1028	
COMPONENT	FORWARDED TO
Forward and Aft AFCS Servo	North Island NAVAIR Rework Facility
Collective AFCS Servo	North Island NAVAIR Rework Facility
Lateral AFCS Servo	North Island NAVAIR Rework Facility
Yaw AFCS Servo	North Island NAVAIR Rework Facility
Control Rod	Warner Robins ALC
Main Rotor Blades	Warner Robins ALC
Sleeve and Spindle Assemblies	Warner Robins ALC

COMPONENT

Sall of

Sleeve and Spindle Assembly

CH-53 Aircraft, SN 68-10933

ROBERT V. HANNAH, JR., Lt Col, USAF Chief, Flight Safety FORWARDED TO

North Island NAVAIR Rework Facility

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alle addendum